PRODUCT INFORMATION

DuPont[™] Hytrel[®] 4069 THERMOPLASTIC POLYESTER ELASTOMER

Product Information

Common features of Hytrel® thermoplastic polyester elastomer include mechanical and physical properties such as exceptional toughness and resilience, high resistance to creep, impact and flex fatigue, flexibility at low temperatures and good retention of properties at elevated temperatures. In addition, it resists many industrial chemicals, oils and solvents. Special grades include heat stabilised, flame retardant, food contact compliant, blow molding and extrusion grades. Concentrates offered include black pigments, UV protection additives, heat stabilisers, and flame retardants.

Hytrel® thermoplastic polyester elastomer is plasticiser free.

The good melt stability of Hytrel® thermoplastic polyester elastomer normally enables the recycling of properly handled production waste. If recycling is not possible, DuPont recommends, as the preferred option, incineration with energy recovery (-24 kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Hytrel® thermoplastic polyester elastomer typically is used in demanding applications in the automotive, fluid power, electrical/electronic, consumer goods, appliance and power tool, sporting goods, furniture, industrial and off-road transportation/equipment industry.

Hytrel® 4069 is a low modulus grade with nominal hardness of 40D. It contains non-discoloring stabilizer. It can be processed by many conventional thermoplastic processing techniques like injection molding and extrusion.

General information	Value	Unit	Test Standard
Resin Identification	TPC-ET	-	ISO 1043
Part Marking Code	TPC-ET	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Melt volume-flow rate	8.8	cm ³ /10min	ISO 1133
Temperature	220	°C	ISO 1133
Load	2.16	kg	ISO 1133
Melt mass-flow rate	8.5	g/10min	ISO 1133
Melt mass-flow rate, Temperature	220	°C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	ISO 1133
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
Mechanical properties (TPE)	Value	Unit	Test Standard
Tensile Modulus	45	MPa	ISO 527-1/-2
Stress at 10% strain	3.2	MPa	ISO 527-1/-2
Stress at 50% strain	6.7	MPa	ISO 527-1/-2
Stress at break	29	MPa	ISO 527-1/-2
Strain at break	>300	%	ISO 527-1/-2
Nominal strain at break	800	%	ISO 527-1/-2
Tear strength, parallel	100	kN/m	ISO 34-1
Tear strength, normal	100	kN/m	ISO 34-1
Shore D hardness, max	37	-	ISO 7619-1
Shore D hardness, 15s	33	-	ISO 7619-1
Mechanical properties	Value	Unit	Test Standard
Flexural Modulus	45	MPa	ISO 178
Charpy impact strength			ISO 179/1eU
73°F	Ν	kJ/m²	
-22°F	Ν	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
73°F	Ν	kJ/m²	
-22°F	Ν	kJ/m²	
-40° F	Ν	kJ/m²	
Brittleness temperature	-96	°C	ISO 974
Izod notched impact strength			ISO 180/1A
73°F	Ν	kJ/m²	
-40° F	Ν	kJ/m²	

Revised: 2018-03-23

To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America

Asia Pacific

DONGGUAN FUMEI PLASTICS CO.,LTD. EMAIL: fumei@foomx.com Europe/Middle East/Africa TEL: +86 0769-82339888 / 87798999



Page: 1 of 6

Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

Thermal properties	Value	Unit	Test Standard
Melting temperature, 18°F/min	193	°C	ISO 11357-1/-3
Glass transition temperature, 18°F/min	-50	°C	ISO 11357-1/-2
	49	°C	ISO 75-1/-2
Temp. of deflection under load, 65 psi	130	°C	ISO 306
Vicat softening temperature, 90°F, 2 lbf			
Coeff. of linear therm. expansion, parallel	220	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion			ISO 11359-1/-2
normal		E-6/K	
Normal, -40-23°C		E-6/K	
Parallel, -40-23°C	280	E-6/K	
RTI, electrical			UL 746B
60mil	50	°C	
120mil	50	°C	
RTI, impact			UL 746B
60mil	50	°C	
120mil	50	°C	
RTI, strength			UL 746B
60mil	50	°C	
120mil	50	°C	
Flammability	Value	-	Test Standard
Burning Behav. at 60mil nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	yes	-	UL 94
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
UL recognition		-	UL 94
	yes		
Oxygen index Flammability, 3.0mm	20	%	ISO 4589-1/-2
Flammability 3 (Jmm	HB	-	IEC 60695-11-10
FMVSS Class	В	-	ISO 3795 (FMVSS 302)
FMVSS Class Burning rate, Thickness 1 mm	B <100	- mm/min	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302)
FMVSS Class Burning rate, Thickness 1 mm Electrical properties	В	- mm/min	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity	B <100 Value	- mm/min Unit	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302)
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz	B <100 Value 4.8	- mm/min Unit -	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz	B <100 Value	- mm/min Unit -	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz	B <100 Value 4.8	- mm/min Unit -	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz	B <100 Value 4.8	- mm/min Unit -	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor	B <100 Value 4.8 4.7	- mm/min Unit - - E-4	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz	B <100 Value 4.8 4.7 130 200	- mm/min Unit - - E-4	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz	B <100 Value 4.8 4.7 130 200	- mm/min Unit - - E-4 E-4 Dhm*m	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity	B <100 Value 4.8 4.7 130 200 4E10	- mm/min Unit - - - E-4 E-4 E-4 Ohm*m Ohm	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength	B <100 Value 4.8 4.7 130 200 4E10 3E14 18	- mm/min Unit - - - E-4 E-4 Ohm*m Ohm	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value	- mm/min Unit - - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm - Unit	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7	- mm/min Unit - - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit %	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110	- mm/min Unit - - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100	- mm/min Unit - - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit % kg/m ³ kg/m ³	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 -
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ %	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 Sim. to ISO 62
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm - Unit % kg/m ³ kg/m ³ % Unit	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 Sim. to ISO 62 Test Standard
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23°C/85%r.h.	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm - Unit % kV/mm - Unit % kg/m ³ kg/m ³ % Unit g/(m ² *d)	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 Sim. to ISO 62
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23°C/85%r.h. Thickness of specimen	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ % Unit g/(m ² *d) mm	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Sim. to ISO 62 Test Standard DIS 15106-1/-2 -
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23°C/85%r.h. Thickness of specimen VDA Properties	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025 Value	- mm/min Unit - - - - E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ % Unit g/(m ² *d) mm Unit	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Sim. to ISO 62 Test Standard DIS 15106-1/-2 - Test Standard
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23° C/85%r.h. Thickness of specimen VDA Properties Emission of organic compounds	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025 Value 10	- mm/min Unit - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ % Unit g/(m ² *d) mm Unit μgC/g	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Sim. to ISO 62 Test Standard DIS 15106-1/-2 - Test Standard VDA 277
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23° C/85%r.h. Thickness of specimen VDA Properties Emission of organic compounds Odor test	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025 Value 10 4	- mm/min Unit - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ % Unit g/(m ² *d) mm Unit μgC/g class	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISM. to ISO 62 Test Standard DIS 15106-1/-2 - Test Standard VDA 277 VDA 270
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23°C/85%r.h. Thickness of specimen VDA Properties Emission of organic compounds Odor test Injection	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025 Value 10	- mm/min Unit - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ % Unit g/(m ² *d) mm Unit μgC/g class	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Sim. to ISO 62 Test Standard DIS 15106-1/-2 - Test Standard VDA 277
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23° C/85%r.h. Thickness of specimen VDA Properties Emission of organic compounds Odor test Injection Drying Recommended	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025 Value 10 4 Value	- mm/min Unit - - - - - - - - - - - - - - - - - - -	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISO 1183 - Test Standard DIS 15106-1/-2 - Test Standard VDA 277 VDA 270 Test Standard - - Test Standard - - - Test Standard VDA 277 VDA 270 Test Standard -
FMVSS Class Burning rate, Thickness 1 mm Electrical properties Relative permittivity 100Hz 1MHz Dissipation factor 100Hz 1MHz Volume resistivity Surface resistivity Electric strength Comparative tracking index Other properties Humidity absorption, 80mil Water absorption, 80mil Density Density of melt Water Absorption, Immersion 24h Film Properties WVTR, 23°C/85%r.h. Thickness of specimen VDA Properties Emission of organic compounds Odor test Injection	B <100 Value 4.8 4.7 130 200 4E10 3E14 18 600 Value 0.3 0.7 1110 1100 0.7 Value 900 0.025 Value 10 4 Value	- mm/min Unit - - - E-4 E-4 E-4 Ohm*m Ohm kV/mm - Unit % % kg/m ³ kg/m ³ % Unit g/(m ² *d) mm Unit μgC/g class Unit	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302) Test Standard IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1 IEC 62631-3-2 IEC 60243-1 IEC 60112 Test Standard Sim. to ISO 62 Sim. to ISO 62 ISM. to ISO 62 Test Standard DIS 15106-1/-2 - Test Standard VDA 277 VDA 270 Test Standard

To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America

DONGGUAN FUMEI PLASTICS CO.,LTD. EMAIL: fumei@foomx.com

Asia Pacific

Europe/Middle East/Africa TEL: +86 0769-82339888 / 87798999



Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

Page: 2 of 6

Drying Time, Dehumidified Dryer		2 - 3	h	-	
Processing Moisture Content		≤0.08	%	-	
Melt Temperature Optimum		225	°C	-	
Min. melt temperature		220	°C	-	
Max. melt temperature		250	°C	-	
Mold Temperature Optimum		40	°C	-	
Min. mold temperature		30	°C	-	
Max. mold temperature		40	°C	-	
Extrusion		Value	Unit	Test Stan	dard
Drying Temperature		90 - 110	°C	-	
Drying Time, Dehumidified Dryer		2 - 3	h	-	
Processing Moisture Content		≤0.06	%	-	
Melt Temperature Optimum		215	°C	-	
Melt Temperature Range		210 - 225	°C	-	
Characteristics					
	 Injection Molding 	• She	eet Extrusion		Casting
Processing	 Film Extrusion 	 Other Extrusion 			 Thermoforming
	 Profile Extrusion 	• Co	ating		
Delivery form	Pellets				
Special characteristics	 Light stabilized or stable to light 				
• • • • • • • • • •	North America	• Asi	a Pacific		 Near East/Africa
Regional Availability	Europe	• Sou	uth and Centra	l America	• Global
Processing Texts					

Profile extrusion PREPROCESSING

Drying temperature = $100^{\circ}C$ Drying time, dehumidified dryer = 2-3 h Processing moisture content = <0.06 %

PROCESSING

Melt termperature range = 205-230°C Melt temperature optimum = 215°C

Revised: 2018-03-23

Page: 3 of 6

To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America

Asia Pacific DONGGUAN FUMEI PLASTICS CO., LTD. EMAIL: fumei@foomx.com

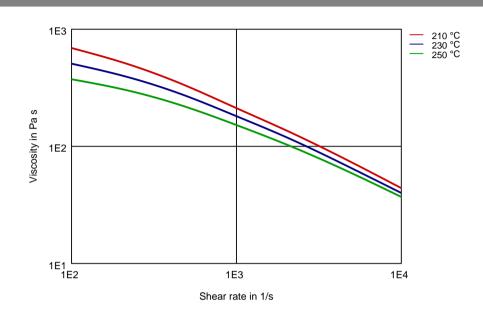
Europe/Middle East/Africa TEL: +86 0769-82339888 / 87798999



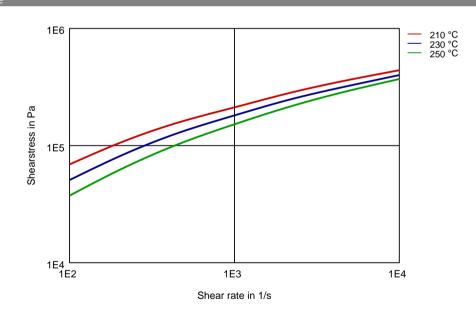
Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Revised: 2018-03-23

To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

North America

EMAIL: fumei@foomx.com

DONGGUAN FUMEI PLASTICS CO., LTD.

Asia Pacific

Europe/Middle East/Africa TEL: +86 0769-82339888 / 87798999 QU POND.

Page: 4 of 6

Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

Chem	cal Media Resistance	
Acids		
	Acetic Acid (5% by mass) (23°C)	
	Citric Acid solution (10% by mass) (23°C)	
	Lactic Acid (10% by mass) (23°C)	
XXX	Hydrochloric Acid (36% by mass) (23°C)	
×.	Nitric Acid (40% by mass) (23°C)	
X	Sulfuric Acid (38% by mass) (23°C)	
-	Sulfuric Acid (5% by mass) (23°C)	
X	Chromic Acid solution (40% by mass) (23°C)	
Bases		
	Sodium Hydroxide solution (35% by mass) (23°C)	
	Sodium Hydroxide solution (1% by mass) (23°C)	
	Ammonium Hydroxide solution (10% by mass) (23°C)	
Alcoh		
	Isopropyl alcohol (23°C)	
	Methanol (23°C)	
\checkmark	Ethanol (23°C)	
Hydro	carbons	
	n-Hexane (23°C)	
	Toluene (23°C)	
	iso-Octane (23°C)	
Keton	es	
X	Acetone (23°C)	
Ethers		
X	Diethyl ether (23°C)	
Minera	al oils	
1	SAE 10W40 multigrade motor oil (23°C)	
X	SAE 10W40 multigrade motor oil (130°C)	
X	SAE 80/90 hypoid-gear oil (130°C)	
1	Insulating Oil (23°C)	
Stand	ard Fuels	
X	ISO 1817 Liquid 1 - E5 (60°C)	
X	ISO 1817 Liquid 2 - M15E4 (60°C)	
XXX	ISO 1817 Liquid 3 - M3E7 (60°C)	
X	ISO 1817 Liquid 4 - M15 (60°C)	
1	Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)	
\checkmark	Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)	
	2018-03-23	Page: 5 of 6
	I out more, visit DuPont Performance Polymers or contact nearest DuPont location.	
	AmericaAsia PacificEurope/Middle East/AfricaiUAN FUMEI PLASTICS CO., LTD.TEL: +86 0769-82339888 / 87798999	
	fumei@foomx.com	
	nt 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and	

Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

- Diesel fuel (pref. ISO 1817 Liquid F) (23°C)
- Diesel fuel (pref. ISO 1817 Liquid F) (90°C)
- Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

Salt solutions

- Sodium Chloride solution (10% by mass) (23°C)
- Sodium Hypochlorite solution (10% by mass) (23°C)
- Sodium Carbonate solution (20% by mass) (23°C)
- Sodium Carbonate solution (2% by mass) (23°C)
- Zinc Chloride solution (50% by mass) (23°C)

Other

- / Ethyl Acetate (23°C)
 - Hydrogen peroxide (23°C)
 - DOT No. 4 Brake fluid (130°C)
- XXX Ethylene Glycol (50% by mass) in water (108°C)
- 1% nonylphenoxy-polyethyleneoxy ethanol in water (23°C)
- 50% Oleic acid + 50% Olive Oil (23°C)
- Water (23°C)
- Water (90°C)
- Phenol solution (5% by mass) (23°C)

Symbols used:

possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

X not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents. Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont customer representative and read Medical Caution H-50103-5.

Copyright © 2017 DuPont or its affiliates. All Rights Reserved. The DuPont Oval Logo, DuPont™, The miracles of science™ and all products denoted with ® or ™ are registered trademarks or trademarks of E.I. du Pont de Nemours and Company or its affiliates.

To find out more, visit DuPont Performance Polymers or contact nearest DuPont location.

Asia Pacific

North America

DONGGUAN FUMEI PLASTICS CO., LTD. EMAIL: fumei@foomx.com

Europe/Middle East/Africa TEL: +86 0769-82339888 / 87798999



Page: 6 of 6

Copyright 2017 DuPont. The DuPont Oval Logo is a trademark or registered trademark of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.