	. Val	11.26	Tari Chardeni
General information	Value Unit Test Standard		
Resin Identification	PA66-GF25FR(17)	-	ISO 1043
Part Marking Code	PA66-GF25FR(17) - ISO 11469		
Rheological properties	dry / cond Unit		Test Standard
Molding shrinkage, parallel	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / -	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	9000 / 6500	MPa	ISO 527-1/-2
Stress at break	130 / 110	MPa	ISO 527-1/-2
Strain at break	2.4 / 3.4	%	ISO 527-1/-2
Charpy impact strength, 73°F	50 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 73°F	9.5 / 11	kJ/m²	ISO 179/1eA
hermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 260 psi	243 / *	°C	ISO 75-1/-2
Vicat softening temperature, 90°F/h, 11 lbf	235 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	26 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	83 / *	E-6/K	ISO 11359-1/-2
Thermal conductivity of melt	0.22	W/(m K)	-
Spec. heat capacity of melt	1910	J/(kg K)	-
RTI, electrical			UL 746B
30mil	120 / *	°C	
60mil	130 / *	°C	
120mil	130	°C	
RTI, impact			UL 746B
30mil	120	°C	
60mil	120 / *	°C	
120mil	120	°C	
RTI, strength			UL 746B
30mil	130	°C	
60mil	130 / *	°C	
120mil	130	°C	
lammability	dry / cond	Unit	Test Standard
Burning Behav. at 60mil nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	yes / *	-	UL 94
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.83 / *	mm	IEC 60695-11-10
UL recognition	yes / *	-	UL 94
Burning Behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	1.5 / *	mm	IEC 60695-11-20
UL recognition	yes / *	-	UL 94
Glow Wire Flammability Index	,		IEC 60695-2-12
40mil	960 / -	°C	· -
60mil	960 / -	°Č	
80mil	960 / -	°C	
120mil	960 / -	°C	
Flammability, 3.0mm	V-0 / *	-	IEC 60695-11-10
FMVSS Class	V-0 / B	-	ISO 3795 (FMVSS 302)
			ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	120 3743 (LWA22 207)

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Other properties	dry / cond	Unit	Test Standard
Humidity absorption, 80mil	0.9 / *	%	Sim. to ISO 62
Water absorption, 80mil	3.4 / *	%	Sim. to ISO 62
Density	1530 / -	kg/m³	ISO 1183
Density of melt	1350	kg/m³	-
Injection	dry / cond	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥80	°C	-
Drying Time, Dehumidified Dryer	2 - 4	h	-
Processing Moisture Content	≤0.2	%	-
Melt Temperature Optimum	290	°C	-
Min. melt temperature	280	°C	-
Max. melt temperature	300	°C	-
Max. screw tangential speed	0.2 / *	m/s	-
Mold Temperature Optimum	100	°C	-
Min. mold temperature	50	°C	-
Max. mold temperature	90	°C	-
Hold pressure range	50 - 100	MPa	-
Hold pressure time	3	s/mm	-
Ejection temperature	210	°C	-

Characteristics			
Processing	 Injection Molding 		
Delivery form	 Pellets 		
Additives	 Release agent 		
Regional Availability	Europe	Near East/Africa	

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Chemical 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)

Hydrochloric Acid (36% by mass) (23°C)

Nitric Acid (40% by mass) (23°C)

Sulfuric Acid (38% by mass) (23°C)

Sulfuric Acid (5% by mass) (23°C)

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)

Alcohols

✓ Isopropyl alcohol (23°C)

✓ Methanol (23°C)

✓ Ethanol (23°C)

Hydrocarbons

√ n-Hexane (23°C)

√ Toluene (23°C)

√ iso-Octane (23°C)

Ketones

✓ Acetone (23°C)

Ethers

✓ Diethyl ether (23°C)

Mineral oils

✓ SAE 10W40 multigrade motor oil (23°C)

SAE 10W40 multigrade motor oil (130°C)

SAE 80/90 hypoid-gear oil (130°C)

Insulating Oil (23°C)

Standard Fuels

√ ISO 1817 Liquid 1 - E5 (60°C)

ISO 1817 Liquid 2 - M15E4 (60°C)

ISO 1817 Liquid 3 - M3E7 (60°C)

✓ ISO 1817 Liquid 4 - M15 (60°C)

Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

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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)



Ethyl Acetate (23°C)



Hydrogen peroxide (23°C)



DOT No. 4 Brake fluid (130°C)



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)



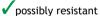
Water (23°C)



Water (90°C)

Phenol solution (5% by mass) (23°C)

Symbols used:



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).



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.

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