Product Information

Common features of Delrin® acetal resins include mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, gasoline, lubricants, solvents, and many other neutral chemicals. Delrin® acetal resins also have excellent dimensional stability and good electrical insulating characteristics. They are naturally resilient, self-lubricating, and available in a variety of colors and speciality grades.

Delrin® acetal resin typically is used in demanding applications in the automotive, domestic appliances, sports, industrial engineering, electronics, and consumer goods industries.

Delrin® FG100AL is a high viscosity acetal homopolymer containing an advanced system of lubrication designed for low wear, low friction, and low noise against metals and plastics. It has been developed for applications in contact with food.

FOOD CONTACT

This product is manufactured according to Good Manufacturing Practice (GMP) principles and generally accepted in food contact applications in Europe and the USA when meeting applicable use conditions. For details, individual compliance statements are available from your DuPont representative.

Resin Identification	General information	Value	Unit	Test Standard
Rheological properties Value Unit Test Standard	Resin Identification	POM-S	-	ISO 1043
Melt mass-flow rate, Temperature 190 °C ISO 1133 Melt mass-flow rate, Load 2.16 kg ISO 1133 Molding shrinkage, parallel 2.0 % ISO 294-4, 2577 Molding shrinkage, normal 1.8 % ISO 294-4, 2577 Mechanical properties Value Unit Test standard Tensile Modulus 3000 MPa ISO 527-17-2 Yield stress 70 MPa ISO 527-17-2 Yield strain 18 % ISO 527-17-2 Nominal strain at break 45 % ISO 527-17-2 Flexural Modulus 2800 MPa ISO 178 Charpy impact strength ISO 179/1eU 73 F 250 kJ/m² 72 F 170 kJ/m² Izod notched impact strength ISO 179/1eA 73 F F 9 kJ/m² Izod notched impact strength, 73 F 8 kJ/m² Izod notched impact strength, 73 F 8 kJ/m² Izod notched impact strength ISO 180/1A Thermal properties Value Welting temperature, 18 F/min 178 °C ISO 11357-1/-3 Temp. of deflection	Part Marking Code	POM-S	-	ISO 11469
Melt mass-flow rate, Temperature 190 °C ISO 1133 Met mass-flow rate, Load 2.16 kg ISO 1133 Molding shrinkage, parallel 2.0 % ISO 294-4, 2577 Molding shrinkage, normal 1.8 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 3000 MPa ISO 527-17-2 Yield stress 70 MPa ISO 527-17-2 Yield strain 18 % ISO 527-17-2 Nominal strain at break 45 % ISO 527-17-2 Nominal strain at break 45 % ISO 1797 Charpy impact strength ISO 1797 ISO 1797 feU 73 'F 250 kJ/m² ISO 1797/feU 73 'F 9 kJ/m² ISO 1797/feU 73 'F 9 kJ/m² ISO 180/1A Itangual properties Value Unit Test Standard Melting temperature, 18 'F/min 178 °C ISO 11357-17-3 Temp. of deflection under load ISO 75-17-2 ISO 75-17-2 260 psi 97 °C G5 psi ISO 75-17-2 <td< td=""><td>Rheological properties</td><td>Value</td><td>Unit</td><td>Test Standard</td></td<>	Rheological properties	Value	Unit	Test Standard
Melt mass-flow rate, Load 2.16 kg ISO 1133 Molding shrinkage, parallel 2.0 % ISO 294-4, 2577 Molding shrinkage, normal 1.8 % ISO 294-4, 2577 Molding shrinkage, normal 1.8 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 3000 MPa ISO 527-11-2 Yield stress 70 MPa ISO 527-11-2 Yield strain 18 % ISO 527-11-2 Yield strain 18 % ISO 527-11-2 Yield strain 18 % ISO 527-11-2 Nominal strain at break 45 % ISO 527-11-2 Flexural Modulus 2800 MPa ISO 178 Charpy impact strength ISO 179 Charpy impact strength ISO 179/1eU 73 'F	Melt mass-flow rate	2.5		ISO 1133
Molding shrinkage, parallel 2.0 % ISO 294-4, 2577 Molding shrinkage, normal 1.8 % ISO 294-4, 2577 Mechanical properties Value Unit Test Standard Tensile Modulus 3000 MPa ISO 527-1/-2 Yield stress 70 MPa ISO 527-1/-2 Yield strain 18 % ISO 527-1/-2 Nominal strain at break 45 % ISO 527-1/-2 Inch and Modulus 2800 MPa ISO 178 Charpy impact strength ISO 179/1eU 73 °F 250 KJ/m² ISO 179/1eU 73 °F 250 KJ/m² ISO 179/1eA 73 °F 9 KJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 18 °F/min 178 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 65 psi 65 psi ISO 10 (Insert term. expansion, parallel ID E-6/K ISO 11359-1/-2 <	Melt mass-flow rate, Temperature	190	°C	ISO 1133
Molding shrinkage, normal	Melt mass-flow rate, Load	2.16	kg	ISO 1133
Mechanical properties Value Unit Test Standard	Molding shrinkage, parallel	2.0	%	ISO 294-4, 2577
Tensile Modulus 3000 MPa ISO 527-1/-2 Yield stress 70 MPa ISO 527-1/-2 Yield strain 18 % ISO 527-1/-2 Nominal strain at break 45 % ISO 527-1/-2 Nominal strain at break 45 % ISO 178 Charpy impact strength ISO 179/1eU ISO 179/1eU 73 'F 250 kJ/m² -22 'F 170 kJ/m² Charpy notched impact strength ISO 179/1eA 73 'F 9 kJ/m² -22 'F 7 kJ/m² Izod notched impact strength, 73 'F 8 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 18 'F/min 178 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 ISO 75-1/-2 260 psi 97 °C 65 psi 163 °C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2	Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
Yield stress 70 MPa ISO 527-1/-2 Yield strain 18 % ISO 527-1/-2 Nominal strain at break 45 % ISO 527-1/-2 Flexural Modulus 2800 MPa ISO 178 Charpy impact strength ISO 179/1eU ISO 179/1eU 73 °F 250 kJ/m² -22 °F 7 kJ/m² 1zod notched impact strength, 73 °F 8 kJ/m² 1zod notched impact strength, 73 °F 8 kJ/m² 1zod notched impact strength, 73 °F 8 kJ/m² Izod notched impact strength, 73 °F 18 kJ/m² Izod notched impact strength, 18 °F/min 178 °C ISO 1135	Mechanical properties	Value	Unit	Test Standard
Yield strain 18 % ISO 527-1/-2 Nominal strain at break 45 % ISO 527-1/-2 Flexural Modulus 2800 MPa ISO 178 Charpy impact strength ISO 179/1eU 73 °F 250 kJ/m² -22 °F 170 kJ/m² Charpy notched impact strength ISO 179/1eA 73 °F 9 kJ/m² -22 °F 7 kJ/m² Izod notched impact strength, 73 °F 8 kJ/m² Izod notched impact strength, 73 °F 8 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 18 °F/min 178 °C ISO 11357-1/-3 Temp. of deflection under load 50 °C 65 psi 163 °C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 <t< td=""><td>Tensile Modulus</td><td>3000</td><td>MPa</td><td>ISO 527-1/-2</td></t<>	Tensile Modulus	3000	MPa	ISO 527-1/-2
Nominal strain at break	Yield stress	70	MPa	ISO 527-1/-2
Flexural Modulus 2800 MPa ISO 178	Yield strain	18	%	ISO 527-1/-2
Charpy impact strength ISO 179/1eU 73°F 250 kJ/m² -22°F 170 kJ/m² Charpy notched impact strength ISO 179/1eA 73°F 9 kJ/m² -22°F 7 kJ/m² Izod notched impact strength, 73°F 8 kJ/m² ISO 180/1A Thermal properties Melting temperature, 18°F/min 178°C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 97°C 50°C 65 psi 163°C C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50°C RTI, impact UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C	Nominal strain at break	45	%	ISO 527-1/-2
73°F 250 kJ/m² -22°F 170 kJ/m² Charpy notched impact strength ISO 179/1eA 73°F 9 kJ/m² -22°F 7 kJ/m² Izod notched impact strength, 73°F 8 kJ/m² ISO 180/1A Thermal properties Welting temperature, 18°F/min 178°C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 97°C 65 psi 65 psi 163°C C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50°C RTI, impact UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C	Flexural Modulus	2800	MPa	ISO 178
-22°F Charpy notched impact strength 73°F 9 kJ/m² Izod notched impact strength, 73°F 8 kJ/m² Iso 180/1A Thermal properties Value Unit Test Standard Melting temperature, 18°F/min 178°C ISO 11357-1/-3 Temp. of deflection under load 150 75-1/-2 60 psi 97°C 65 psi 163°C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50°C RTI, impact UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C RTI, strength UL 746B	Charpy impact strength			ISO 179/1eU
Charpy notched impact strength 73 °F 9 kJ/m² 7 kJ/m² 150 180/1A 150 180/1A 178 °C 150 11357-1/-3 178 °C 150 11357-1/-3 178 °C 150 11357-1/-3 178 °C 150 11357-1/-2 178 °C 178 °C	73°F	250	kJ/m²	
73°F 9 kJ/m² -22°F 7 kJ/m² Izod notched impact strength, 73°F 8 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 18°F/min 178°C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 97°C 65 psi 65 psi 163°C C Coeff. of linear therm. expansion, parallel 110°E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110°E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50°C RTI, impact UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C RTI, strength UL 746B	-22°F	170	kJ/m²	
-22°F 7 kJ/m² Izod notched impact strength, 73°F 8 kJ/m² ISO 180/1A Thermal properties Value Unit Test Standard Melting temperature, 18°F/min 178 °C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 97 °C 65 psi 163 °C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 °C RTI, impact UL 746B 30mil 50 °C RTI, strength UL 746B 30mil 50 °C RTI, strength UL 746B 30mil 50 °C	Charpy notched impact strength			ISO 179/1eA
Izod notched impact strength, 73°F	73°F	9	kJ/m²	
Thermal properties Value Unit Test Standard Melting temperature, 18°F/min 178°C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 97°C C 65 psi 163°C C Coeff. of linear therm. expansion, parallel 110°E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110°E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50°C 120mil 50°C RTI, impact UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C	-22°F	7	kJ/m²	
Melting temperature, 18°F/min 178°C ISO 11357-1/-3 Temp. of deflection under load ISO 75-1/-2 260 psi 97°C 65 psi 163°C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50°C RTI, impact UL 746B 30mil 50°C RTI, strength UL 746B 30mil 50°C	Izod notched impact strength, 73°F	8	kJ/m²	ISO 180/1A
Temp. of deflection under load ISO 75-1/-2 260 psi 97 °C 65 psi 163 °C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	Thermal properties	Value	Unit	Test Standard
260 psi 97 °C 65 psi 163 °C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	Melting temperature, 18°F/min	178	°C	ISO 11357-1/-3
65 psi 163 °C Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	Temp. of deflection under load			ISO 75-1/-2
Coeff. of linear therm. expansion, parallel 110 E-6/K ISO 11359-1/-2 Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	260 psi	97	°C	
Coeff. of linear therm. expansion, normal 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 746B 30mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	65 psi	163	°C	
RTI, electrical UL 746B 30mil 50 °C 120mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
30mil 50 °C 120mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
120mil 50 °C RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	RTI, electrical			UL 746B
RTI, impact UL 746B 30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	30mil	50	°C	
30mil 50 °C 120mil 50 °C RTI, strength UL 746B 30mil 50 °C	120mil	50	°C	
120mil 50 °C RTI, strength UL 746B 30mil 50 °C	RTI, impact			UL 746B
RTI, strength UL 746B 30mil 50 °C	30mil	50	°C	
30mil 50 °C	120mil	50	°C	
	RTI, strength			UL 746B
120mil 50 °C	30mil	50	°C	
	120mil	50	°C	

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Flammability		Value	Unit	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		НВ	class	IEC 60695-11-10		
Thickness tested		0.75	mm	IEC 60695-11-10		
UL recognition		yes	=	UL 94		
FMVSS Class		В	-	ISO 3795 (FMVSS 302)		
Burning rate, Thickness 1 mm		26	mm/min	ISO 3795 (FMVSS 302)		
Other properties		Value	Unit	Test Standard		
Density		1400	kg/m³	ISO 1183		
VDA Properties		Value	Unit	Test Standard		
Fogging, G-value (condensate)		0.1	mg	ISO 6452		
Injection		Value	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		215	°C	-		
Min. melt temperature		210	°C	-		
Max. melt temperature		220	°C	-		
Mold Temperature Optimum		90	°C	-		
Min. mold temperature		80	°C	-		
Max. mold temperature		100	°C	-		
Hold pressure range		90 - 110	MPa	-		
Hold pressure time		8	s/mm	-		
Extrusion		Value	Unit	Test Standard		
Drying Temperature		75 - 85	°C	-		
Drying Time, Dehumidified Dryer		2 - 4		-		
Processing Moisture Content		≤0.2		-		
Melt Temperature Optimum		200	°C	-		
Melt Temperature Range		195 - 205	°C	-		
Characteristics						
Processing	 Injection Molding 		Sheet Extrusion			
	 Profile Extrusion 	• Oth	ner Extrusion			
Delivery form	• Pellets					
Additives	Lubricants		lease agent			
Regional Availability	 North America 		Asia Pacific • Near East/Africa			
Regional Availability	• Europe	• Sou	uth and Central A	th and Central America • Global		

Processing Texts

Injection molding

Drying is recommended, but not necessary for newly opened packaging stored in a dry location.

Follow the drying guidelines above in the following cases:

- · If moisture is above the Processing Moisture Content recommendation,
- · When a resin container is damaged,
- \cdot When the material is not properly stored in a dry place at room temperature, or
- $\boldsymbol{\cdot}$ When packaging stays open for a significant time.

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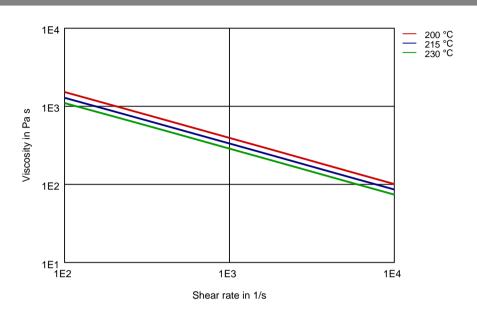
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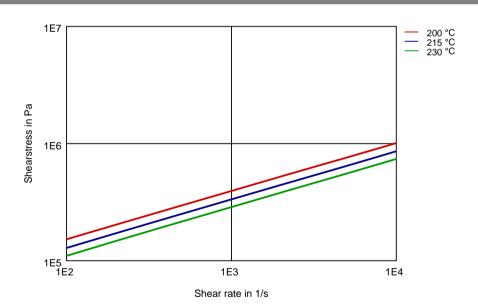
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Diagrams



Shearstress-shear rate



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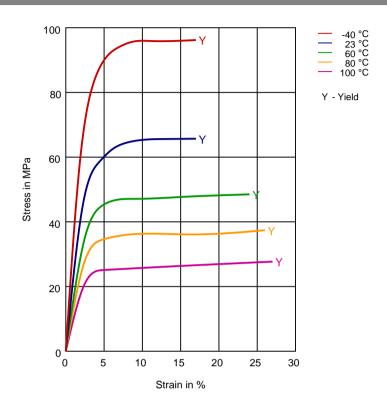
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Stress-strain



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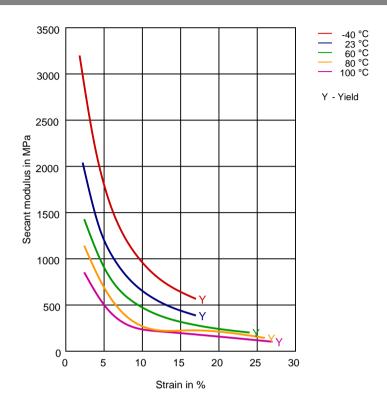
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Secant modulus-strain



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:MAIL: Tumel@roomx.com



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)

Miche Acid (40% by mass) (25°C)

Sulfuric Acid (38% by mass) (23°C)

Sulfuric Acid (5% by mass) (23°C)

Chromic Acid solution (40% by mass) (23°C)

Rases

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)

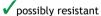


Water (90°C)



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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