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® FG100P is a high viscosity acetal homopolymer for use in easy-to-fill molds. It provides a great combination of toughness and strength, and improved processing thermal stability and productivity for injection moulding. 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.

General information	Value		Test Standard
Resin Identification	POM		ISO 1043
Part Marking Code	POM	-	ISO 11469
Rheological properties	Value	Unit	Test Standard
Melt volume-flow rate	1.9	cm ³ /10min	ISO 1133
Temperature	190	°C	ISO 1133
Load	2.16	kg	ISO 1133
Melt mass-flow rate	2.5	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	ISO 1133
Moulding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Moulding shrinkage, normal	2.0	%	ISO 294-4, 2577
Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	2900	MPa	ISO 527-1/-2
Yield stress	70	MPa	ISO 527-1/-2
Yield strain	25	%	ISO 527-1/-2
Nominal strain at break	45	%	ISO 527-1/-2
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress at 3.5%	74	MPa	ISO 178
Tensile creep modulus			ISO 899-1
1h	2700	MPa	
1000h	1500	MPa	
Charpy impact strength			ISO 179/1eU
23°C	Ν	kJ/m²	
-30°C	350	kJ/m²	
Charpy notched impact strength			ISO 179/1eA
23°C	14	kJ/m²	
-30°C	11	kJ/m²	
Izod notched impact strength			ISO 180/1A
23°C	14	kJ/m²	
-40° C	12	kJ/m²	
Hardness, Rockwell, M-scale	92	-	ISO 2039-2
Hardness, Rockwell, R-scale	120	-	ISO 2039-2
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
1.8 MPa	93	°C	
0.45 MPa	160	°C	
Vicat softening temperature, 50°C/h, 50N	160	°C	ISO 306

Revised: 2018-03-28

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

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Coeff. of linear therm. expansion, normat 110 E-6/K ISO 11359-1/-2 RTI, electrical UL 7468 UL 7468 0.75mm 10 'C 3mm 110 'C 3mm 110 'C 3mm 110 'C 3mm 110 'C 3mm 90 'C 3mm 10 'C Michaes tested 1.5 mm UL recognition Yes UL 94 Herring Behav, at 1.5mn nom, thickn, HB Class Burning Behav, at 1.5mn 0.75 Time IEC 60695-11-10 <th>Coeff. of linear therm. expansion, parallel</th> <th>110</th> <th>E-6/K</th> <th>ISO 11359-1/-2</th>	Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
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Processing Moisture Content≤0.2 %-Melt Temperature Optimum200 °C-				-
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				-
				-
			-	

Characteristics

Processing	 Injection Moulding 	 Sheet Extrusion 	
Processing	 Profile Extrusion 	 Other Extrusion 	
Delivery form	 Pellets 		
Additives	 Lubricants 	 Release agent 	
Degional Availability	North America	Asia Pacific	 Near East/Africa
Regional Availability	Europe	 South and Central America 	• Global

Revised: 2018-03-28

Toll-Free (USA): 800 441-0575

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

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Asia Pacific

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Europe/Middle East/Africa Tel: +41 22 717 51 11



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

Revised: 2018-03-28

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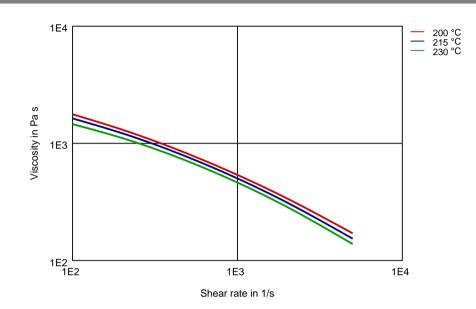
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Asia Pacific Tel: +81 3 5521 8600 Europe/Middle East/Africa Tel: +41 22 717 51 11

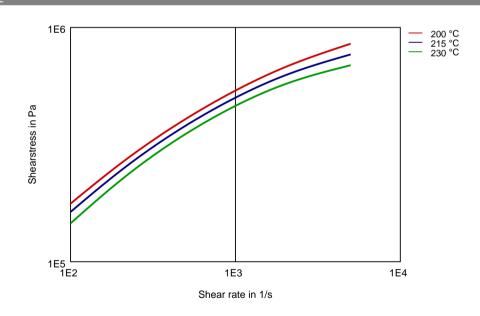


Diagrams

Viscosity-shear rate



Shearstress-shear rate



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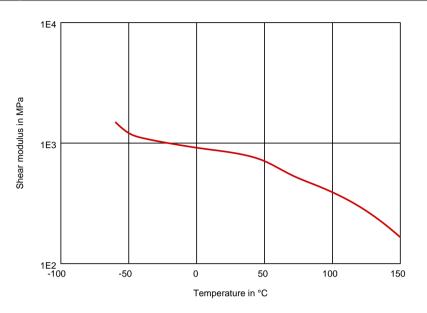
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Dynamic Shear modulus-temperature



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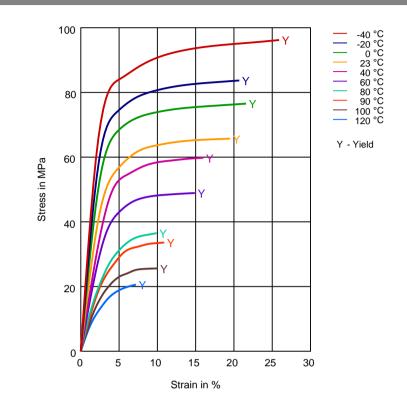
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Stress-strain



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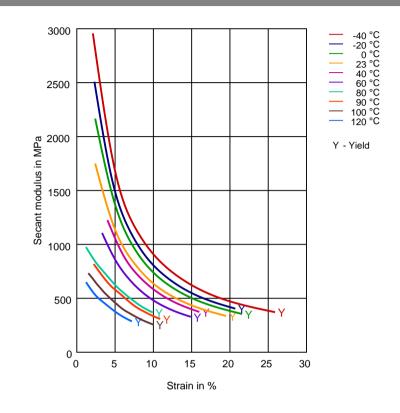
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Secant modulus-strain



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Chemi	ical Media Resista	ance		
Acids				
		by mass) (23°C)		
×.		tion (10% by mass) (23°C)		
X		% by mass) (23°C)		
X		cid (36% by mass) (23°C)		
X		% by mass) (23°C)		
X		8% by mass) (23°C)		
*****		i% by mass) (23°C)		
	Chromic Acid so	olution (40% by mass) (23°C)		
Bases	Sodium Hydroxi	ide solution (35% by mass) (23°C)	
\sim		ide solution (1% by mass) (23°C))	
X X X		droxide solution (10% by mass) (25°C)	3°C)	
Alcoho	nls			
	Isopropyl alcoh	ol (23°C)		
\checkmark	Methanol (23°C	2)		
\checkmark	Ethanol (23°C)			
Hydro	carbons			
\checkmark	n-Hexane (23°C	C)		
\checkmark	Toluene (23°C))		
\checkmark	iso-Octane (23°	°C)		
Keton	es			
\checkmark	Acetone (23°C))		
Ethers	5			
	Diethyl ether (2	23°C)		
Minera	al oils			
\checkmark	SAE 10W40 mul	ltigrade motor oil (23°C)		
X	SAE 10W40 mul	ltigrade motor oil (130°C)		
X	SAE 80/90 hypo	oid-gear oil (130°C)		
	Insulating Oil (2	23°C)		
Standa	ard Fuels			
\checkmark	ISO 1817 Liquid	1 - E5 (60°C)		
\checkmark		1 2 - M15E4 (60°C)		
\checkmark		1 3 - M3E7 (60°C)		
V		I 4 - M15 (60°C)		
\		vithout alcohol (pref. ISO 1817 Li		
1	Standard fuel w	vith alcohol (pref. ISO 1817 Liqui	d 4) (23°C)	
Devrie - '	. 2018 02 28			D 0 (0
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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)

Other

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

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).

Xnot 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 4mm (Hytrel® measured at 2 mm), IEC Electrical properties measured at 2mm, all ASTM properties measured at 3.2mm, and test temperatures are 23°C unless otherwise stated.

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