#### 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® 577 is a medium viscosity acetal homopolymer containing 20% glass fiber filler for injection molding. It has very high stiffness, low warpage, and good creep resistance for superior performance at elevated temperature. It contains carbon black for improved weathering.

Test Standard         ISO 1043         ISO 11469         Test Standard         ISO 1133         ISO 1133         ISO 1133         ISO 1133         ISO 1133         ISO 294-4, 2577         ISO 294-4, 2577         Test Standard         ISO 527-1/-2         ISO 527-1/-2         ISO 527-1/-2         ISO 178         ISO 179/1eA         Test Standard         ISO 11357-1/-3         ISO 11357-1/-2         ISO 11359-1/-2         ISO 11359-1/-2         ISO 11359-1/-2
ISO 11469 Test Standard ISO 1133 ISO 1133 ISO 1133 ISO 294-4, 2577 ISO 294-4, 2577 Test Standard ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA Test Standard ISO 11357-1/-2 ISO 11359-1/-2
Test Standard         ISO 1133         ISO 1133         ISO 1133         ISO 1133         ISO 294-4, 2577         ISO 294-4, 2577         Test Standard         ISO 527-1/-2         ISO 527-1/-2         ISO 527-1/-2         ISO 527-1/-2         ISO 178         ISO 179/1eA         Test Standard         ISO 75-1/-2         ISO 75-1/-2         ISO 11359-1/-2
ISO 1133 ISO 1133 ISO 1133 ISO 294-4, 2577 ISO 294-4, 2577 Test Standard ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA Test Standard ISO 11357-1/-3 ISO 75-1/-2
ISO 1133 ISO 1133 ISO 294-4, 2577 ISO 294-4, 2577 Test Standard ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA Test Standard ISO 11357-1/-3 ISO 75-1/-2
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ISO 294-4, 2577 ISO 294-4, 2577 Test Standard ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA Test Standard ISO 11357-1/-3 ISO 75-1/-2
ISO 294-4, 2577 Test Standard ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA Test Standard ISO 11357-1/-3 ISO 75-1/-2 ISO 11359-1/-2
Test Standard         ISO 527-1/-2         ISO 527-1/-2         ISO 527-1/-2         ISO 178         ISO 179/1eA         Test Standard         ISO 11357-1/-3         ISO 75-1/-2
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ISO 11359-1/-2
ISO 11359-1/-2
UL 746B
UL 746B
UL 746B
Test Standard
IEC 60695-11-10
IEC 60695-11-10
UL 94
IEC 60695-11-10
IEC 60695-11-10
UL 94
UL 94 ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302)

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

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### Asia Pacific

Europe/Middle East/Africa

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Other properties		Value	Unit	Test Standard
Density		1560	kg/m³	ISO 1183
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		20	°C	-
Mold Temperature Optimum		90	°C	-
Min. mould temperature		80	°C	-
Max. mould temperature		100	°C	-
Hold pressure range		80 - 100	MPa	-
Hold pressure time		8	s/mm	-
Annealing time, optional		30	min/mm	-
Annealing temperature		160	°C	-
Characteristics				
Processing	<ul> <li>Injection Moulding</li> </ul>			
Delivery form	Pellets			
Additives	<ul> <li>Release agent</li> </ul>			
Regional Availability	North America	• Asi	a Pacific	<ul> <li>Near East/Africa</li> </ul>

Regional Availability

• Europe

Asia Pacific

• South 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,
- $\cdot$  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.

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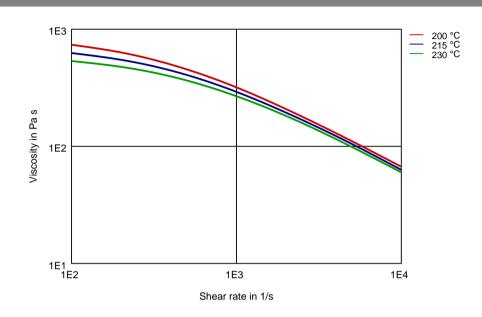
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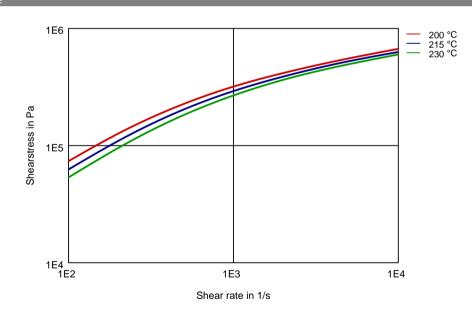
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Diagrams

Viscosity-shear rate



Shearstress-shear rate



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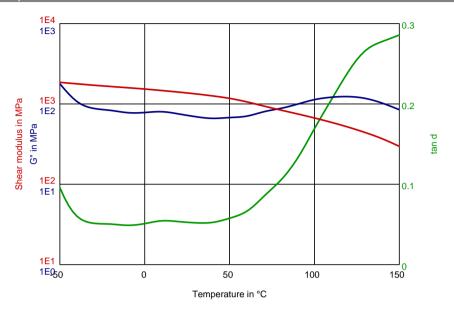
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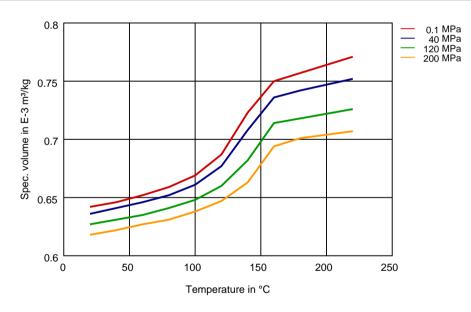
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### Dynamic Shear modulus-temperature



#### Specific volume-temperature (pvT)



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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