DuPont™ Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 1700SL NC010

Delrin® 1700SL is a very high flow acetal homopolymer with special lubricants for applications requiring extremely low coefficient of friction against itself and other plastics. It provides dimensional stability for precision parts.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		POM-S
Part Marking Code	ISO 11469		>POM-S<
Mechanical			
Yield Stress	ISO 527	MPa (kpsi)	66 (9.6)
Yield Strain	ISO 527	%	8
Nominal Strain at Break	ISO 527	%	11
Tensile Modulus	ISO 527	MPa (kpsi)	3030 (439)
Flexural Modulus	ISO 178	MPa (kpsi)	3080 (447)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	3.4
Thermal			
CLTE, Parallel	ISO 11359-1/-2	E-4/C (E-4/F)	
23 - 55°C (73 - 130°F)			1.1 (0.61)
CLTE, Normal	ISO 11359-1/-2	E-4/C (E-4/F)	
23 - 55°C (73 - 130°F)			1.1 (0.61)
Rheological			
Melt Mass-Flow Rate	ISO 1133	g/10 min	
190°C, 2.16kg			36

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Property	Test Method	Units	Value
Other			
Molding Shrinkage		%	
Gate direction, 100mm diam pulley			2.2
Weld direction, 100mm diam pulley			2.2
Mold Shrinkage		%	
Normal			2.1
Parallel			2.0
Processing			
Melt Temperature Range		°C (°F)	200-215 (390-420)
Melt Temperature Optimum		°C (°F)	205 (401)
Mold Temperature Range		°C (°F)	60-100 (140-212)
Mold Temperature Optimum		°C (°F)	80 (176)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	80 (176)
Processing Moisture Content		%	0.2
Hold Pressure Range		MPa (kpsi)	80-100 (12-15)

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