



Delrin®

acetal resin

Delrin® 1700P NC010

Ultra Low Viscosity Acetal

Delrin® 1700P is an ultra low viscosity resin (1700 flow grade) for molding in multicavity molds, complex shapes, long flow paths, and thin sections that are difficult to fill. Delrin® 1700P has superior processing characteristics.

Property	Test Method	Units	Value
Mechanical			
Tensile Strength 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	70 (10.2)
Tensile Strength at Yield 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	71 (10.3)
Elongation at Break 5mm/min (0.2in/min)	ASTM D 638	%	15
Elongation at Yield 5mm/min (0.2in/min)	ASTM D 638	%	8
Tensile Modulus 5mm/min (0.2in/min)	ASTM D 638	MPa (kpsi)	3560 (515)
Flexural Modulus	ASTM D 790	MPa (kpsi)	3380 (490)
Flexural Strength	ASTM D 790	MPa (kpsi)	110 (16)
Izod Impact	ASTM D 256	J/m (ft lb/in)	59 (1.1)
Thermal			
Heat Deflection Temperature 0.45MPa (66psi), Not Annealed	ASTM D 648	°C (°F)	165 (329)
1.8MPa (264psi), Not Annealed			103 (217)
Melting Point	ASTM D 3418	°C (°F)	178 (352)
Melt Flow Rate 1.05kg at 190C	ASTM D 1238	g/10 min	17
Electrical			
Surface Resistivity	ASTM D 257	ohm	1 E14
Dielectric Strength, Short Time 2.3mm (90mils)	ASTM D 149	MV/m (V/mil)	17 (430)
Dielectric Constant 1E6 Hz	ASTM D 150		3.3
Dissipation Factor 1E6 Hz	ASTM D 150		0.005

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.
Mechanical properties measured at 23°C (73°F) unless otherwise stated.

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For other medical applications, see "DuPont Medical Caution Statement", H-50102.

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Property	Test Method	Units	Value
Flammability			
UL94 Rating at Min. Thickness	UL94		HB
UL94 Min. Thickness Tested	UL94	mm (in)	0.8 (0.032)
Other			
Specific Gravity	ASTM D 792		1.42
Water Absorption	ASTM D 570	%	
Equilibrium 50%RH			0.27
Immersion 24hr			0.4
Saturation			1.5
Processing			
Melt Temperature Range		°C (°F)	205-225 (400-440)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Processing Moisture Content		%	<0.2

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