

DuPont™ Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 150XV NC010

Delrin® 150XV NC010 is a high viscosity acetal homopolymer for extrusion. It has excellent thermal stability, low die deposit, and can be processed in void-free thick section rods and plates. It resists discoloring under long hold-up times.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		POM
Part Marking Code	ISO 11469		>POM<
Mechanical			
Yield Stress	ISO 527	MPa (kpsi)	72 (10.4)
Yield Strain	ISO 527	%	20
Nominal Strain at Break	ISO 527	%	40
Tensile Modulus	ISO 527	MPa (kpsi)	3100 (450)
Flexural Modulus	ISO 178	MPa (kpsi)	3000 (435)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	11
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	100 (212)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	178 (350)
Rheological			
Melt Mass-Flow Rate 190°C, 2.16kg	ISO 1133	g/10 min	2.3

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			
Density	ISO 1183	kg/m ³ (g/cm ³)	1420 (1.42)
Processing - Injection Molding			
Melt Temperature Range		°C (°F)	210-220 (410-430)
Melt Temperature Optimum		°C (°F)	215 (420)
Mold Temperature Range		°C (°F)	80-100 (175-210)
Mold Temperature Optimum		°C (°F)	90 (195)
Hold Pressure Range		MPa (kpsi)	90-110 (13-16)
Processing - Extrusion			
Melt Temperature Range		°C (°F)	180-200 (355-390)
Melt Temperature Optimum		°C (°F)	190 (375)
Processing Moisture Content		%	<0.2
Processing			
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (175)
Processing Moisture Content		%	<0.2

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