

DuPont™ Delrin®

acetal resin

PRELIMINARY DATA

Delrin® 300CP BK642

Delrin® 300CP is a medium-high viscosity acetal homopolymer with improved thermal stability and an outstanding balance of ease of processing and part performance. This black is formulated to maintain the mechanical properties of the natural.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		POM
Part Marking Code	ISO 11469		>POM<
Mechanical			
Yield Stress	ISO 527	MPa (kpsi)	71 (10.3)
Yield Strain	ISO 527	%	22
Nominal Strain at Break	ISO 527	%	40
Tensile Modulus	ISO 527	MPa (kpsi)	3050 (440)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	
-30°C (-22°F)			9.5
23°C (73°F)			10
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	
-30°C (-22°F)			310
23°C (73°F)			NB

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
Thermal			
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C (°F)	163 (325)
1.80MPa			100 (212)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	178 (352)
Rheological			
Melt Mass-Flow Rate 190°C, 2.16kg	ISO 1133	g/10 min	7
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1420 (1.42)
Molding Shrinkage Normal, 2.0mm	ISO 294-4	%	1.8
Parallel, 2.0mm			2.1
Processing			
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)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (175)
Processing Moisture Content		%	<0.2
Hold Pressure Range		MPa (kpsi)	80-100 (12-15)

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