

## DuPont™ Delrin®

acetal resin

### Delrin® 127UV BK701

Delrin® 127UV BK701 is a high viscosity, UV stabilized acetal homopolymer. It has excellent impact strength, UV resistance and thermal stability. It is well suited for automotive interior applications.

Property	Test Method	Units	Value
<b>Identification</b>			
Resin Identification	ISO 1043		POM
Part Marking Code	ISO 11469		>POM<
<b>Mechanical</b>			
Yield Stress	ISO 527	MPa (kpsi)	71.5 (10.4)
Yield Strain	ISO 527	%	22
Nominal Strain at Break	ISO 527	%	37
Tensile Modulus	ISO 527	MPa (kpsi)	3000 (435)
Flexural Modulus	ISO 178	MPa (kpsi)	2800 (406)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	
-30°C (-22°F)			10
23°C (73°F)			13
<b>Thermal</b>			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			162 (325)
1.80MPa			92 (198)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			178 (352)

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.

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Property	Test Method	Units	Value
<b>Thermal</b>			
CLTE, Normal	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			1.0 (0.56)
23 - 55°C (73 - 130°F)			1.1 (0.61)
55 - 100°C (130 - 212°F)	ISO 11359-1/-2	E-4/C (E-4/F)	1.6 (0.89)
CLTE, Parallel			
-40 - 23°C (-40 - 73°F)			1.0 (0.56)
23 - 55°C (73 - 130°F)			1.1 (0.61)
55 - 100°C (130 - 212°F)			1.5 (0.83)
<b>Rheological</b>			
Melt Mass-Flow Rate	ISO 1133	g/10 min	
190°C, 2.16kg			2.5
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1420 (1.42)
<b>Processing</b>			
Melt Temperature Range		°C (°F)	210-220 (410-428)
Melt Temperature Optimum		°C (°F)	215 (420)
Mold Temperature Range		°C (°F)	80-100 (175-212)
Mold Temperature Optimum		°C (°F)	90 (194)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (175)
Processing Moisture Content		%	<0.2
Hold Pressure Range		MPa (kpsi)	90-110 (13-16)

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