

DuPont™ Zytel®

nylon resin

Zytel® 70G60HSL BK359

Zytel® 70G60HSL is a 60% glass fiber reinforced, heat stabilized, lubricated polyamide 66 for injection molding.

Property	Test Method	Units	Value		
			DAM	50%RH	
Identification					
Resin Identification	ISO 1043		PA66-GF60		
Part Marking Code	ISO 11469		>PA66-GF60<		
Mechanical					
Stress at Break	ISO 527	MPa (kpsi)	230 (33.4)	180 (26.1)	
Strain at Break	ISO 527	%	1.6	2.1	
Tensile Modulus	ISO 527	MPa (kpsi)	20000 (2900)	15000 (2175)	
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	-30°C (-22°F)	12	10
			23°C (73°F)	11	12
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	-30°C (-22°F)	60	58
			23°C (73°F)	74	80
Thermal					
Deflection Temperature	ISO 75f	°C (°F)	0.45MPa	260 (500)	
			1.80MPa	255 (491)	
Melting Temperature	ISO 11357-1/-3	°C (°F)	10°C/min	263 (505)	
			Vicat Softening Temperature		
50N	ISO 306	°C (°F)	250 (482)		

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	
			DAM	50%RH
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1700 (1.70)	
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH			1	
Saturation, immersed			3.4	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			0.6	
Parallel, 2.0mm			0.2	
Processing				
Melt Temperature Range		°C (°F)	285-305 (545-580)	
Melt Temperature Optimum		°C (°F)	295 (565)	
Mold Temperature Range		°C (°F)	70-120 (160-250)	
Mold Temperature Optimum		°C (°F)	100 (210)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.20	

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