

DuPont™ Zytel®

nylon resin

Zytel® 70G50HSLA BK039B

Zytel® 70G50HSLA BK039B is a 50% glass fiber reinforced, heat stabilized polyamide 66 resin for injection molding. It has excellent flow characteristics.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA66-GF50	
Part Marking Code	ISO 11469		>PA66-GF50<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	245 (35.5)	190 (27.6)
Strain at Break	ISO 527	%	2.2	3.2
Tensile Modulus	ISO 527	MPa (kpsi)	16800 (2440)	13200 (1900)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	16	18
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	95	100
Thermal				
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	253 (487)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	262 (504)	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1570 (1.57)	
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	

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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