

DuPont™ Zytel®

nylon resin

Zytel® 70G43HSLA BK099

Zytel® 70G43HSLA BK099 is a 43% glass fiber reinforced, heat stabilized, black polyamide 66 resin for injection molding.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA66-GF43	
Part Marking Code	ISO 11469		>PA66-GF43<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	225 (32.6)	160 (23.2)
Strain at Break	ISO 527	%	2.5	3.5
Tensile Modulus	ISO 527	MPa (kpsi)	14000 (2030)	11000 (1595)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	16	18
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	90	95
Thermal				
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	255 (491)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	262 (504)	
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1490 (1.49)	
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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