

DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

Zytel® 73G50HSLA BK416

Zytel® 73G50HSLA BK416 is a 50% glass fiber reinforced, heat stabilized, lubricated, polyamide 6 resin for injection molding. It has an excellent surface appearance and gloss.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA6-GF50	
Part Marking Code	ISO 11469		>PA6-GF50<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	245 (36)	160 (23)
Strain at Break	ISO 527	%	2.6	4.1
Tensile Modulus	ISO 527	MPa (kpsi)	16600 (2410)	11000 (1600)
Flexural Modulus	ISO 178	MPa (kpsi)	15700 (2280)	
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	100	100
Thermal				
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C (°F)	214 (417)	
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	217 (423)	
Flammability				
Flammability Classification 3.0mm	IEC 60695-11-10		HB	

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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Product Information

Zytel® 73G50HSLA BK416

Property	Test Method	Units	Value	
			DAM	50%RH
Other				
Density	ISO 1183	kg/m ³ (g/cm ³)	1600 (1.60)	
Water Absorption	ISO 62	%		
Equilibrium 50%RH			1.4	
Saturation, immersed			4.5	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			0.9	
Parallel, 2.0mm			0.1	
Processing				
Melt Temperature Range		°C (°F)	260-280 (500-535)	
Melt Temperature Optimum		°C (°F)	270 (520)	
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		%	<0.2	

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