DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

Zytel® FR82G30V0 BKB523

Zytel® FR82G30V0 BKB523 is a 30% glass fiber reinforced, toughened, flame retardant polyamide 66/6 copolymer resin for injection molding.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA66/6-GF30FR(52)	
Part Marking Code	ISO 11469		>PA66/6-GF30FR(52)<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	146 (21)	102 (15)
Strain at Break	ISO 527	%	5.5	10.4
Tensile Modulus	ISO 527	MPa (kpsi)	8700 (1200)	5500 (800)
Flexural Modulus	ISO 178	MPa (kpsi)	7900 (1100)	
Flexural Stress	ISO 178	MPa (kpsi)		
@ 3.5% Strain			221 (32)	
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	19	30
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	90	107
Thermal				
Deflection Temperature	ISO 75-1/-2	°C (°F)		
0.45MPa			227 (441)	
1.80MPa			211 (412)	
Melting Temperature	ISO 11357-1/-3	°C (°F)		
10°C/min			232 (450)	

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.

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Property	Test Method	Units	Value	
			DAM	50%RH
Flammability				
Flammability Classification	UL94			
1.5mm			V-0	
Other				
Density	ISO 1183	kg/m^3 (g/cm^3)	1400 (1.4)	
Hardness, Rockwell	ISO 2039/2			
Scale M			79	
Scale R			117	
Molding Shrinkage	ISO 294-4	%		
Normal, 2mm			0.3	
Parallel, 2mm			0.6	
Processing				
Melt Temperature Range		°C (°F)	280-300 (535-570)	
Melt Temperature Optimum		°C (°F)	290 (550)	
Mold Temperature Range		°C (°F)	50-90 (120-190)	
Mold Temperature Optimum		°C (°F)	70 (160)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.10	

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