

Zytel® BM70G20HSLX BK537

NYLON RESIN

DuPont Performance Polymers

Message:

20% Glass Reinforced, Heat Stabilized, Polyamide 66 Developed for Blow Molding

General Information				
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Additive		Heat Stabilizer		
		UV Stabilizer		
Features		Heat Stabilized		
Uses		Blow Molding Applications		
Forms		Pellets		
Processing Method		Blow Molding		
Multi-Point Data		Creep Modulus vs. Time (ISO 11403-1)		
		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-IGF20<		
Resin ID (ISO 1043)		PA66-IGF20		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	6.8	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.1	--	%	
Viscosity Number	168	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	4000	MPa	ISO 527-2
Tensile Stress (Break)	120	77.0	MPa	ISO 527-2

Tensile Strain (Break)	4.0	13	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	3900	MPa	
1000 hr	--	3200	MPa	
Flexural Modulus	6100	--	MPa	ISO 178
Shear Modulus	1400	--	MPa	ISO 6721
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	8.0	--	kJ/m ²	
23°C	15	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	7.5	6.0	kJ/m ²	
23°C	80	80	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	8.0	6.0	kJ/m ²	
23°C	14	16	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	73	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	257	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	239	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	60.0	--	°C	ISO 11357-2
Melting Temperature ²	260	--	°C	ISO 11357-3
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density	1.07	--	g/cm ³	
Melt Viscosity (280°C, 1000 sec ⁻¹)	330	--	Pa·s	ISO 11443
Specific Heat Capacity of Melt	2000	--	J/kg/°C	
Thermal Conductivity of Melt	0.20	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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