

Zytel® BM73G15THS BK317

NYLON RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Heat Stabilized, Polyamide 6

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Uses		Blow Molding Applications		
Forms		Pellets		
Processing Method		Blow Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA6-IGF15<		
Resin ID (ISO 1043)		PA6-IGF15		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.70	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	7.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.4	--	%	
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	2500	MPa	ISO 527-2
Tensile Stress (Break)	100	65.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	23	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	11	kJ/m ²	
23°C	21	29	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	75	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-30°C	11	11	kJ/m ²	
23°C	21	28	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°C	ISO 75-2/A
Melting Temperature ¹	221	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Dissipation Factor				IEC 60250
100 Hz	0.016	--		
1 MHz	0.016	--		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	25	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Viscosity (280°C, 1000 sec ⁻¹)	300	--	Pa·s	ISO 11443
NOTE				
1.	10°C/min			

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