

Zytel® HTN 51G15HSL BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, PPA, High Performance Polyamide

General Information			
UL YellowCard	E41938-234557		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PA6T/XT-GF15<		
Part Marking Code (SAE J1344)	>PPA-GF15<		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.30	%	
Viscosity Number (96% H ₂ SO ₄ (Sulphuric Acid))	83.0	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	5800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	5.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	23	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°C	5.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	276	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Melting Temperature ¹	300	°C	ISO 11357-3

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index	575	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	23	%	ISO 4589-2
NOTE			
1.	First Heat		

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