

Zytel® HTN 51G45HSL BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

45% Glass Reinforced, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234559	E41938-101495695	
Filler / Reinforcement		Glass Fiber,45% 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-GF45<		
Part Marking Code (SAE J1344)		>PPA-GF45<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption (23°C, 24 hr, 2.00 mm)	3.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	15500	MPa	ISO 527-2
Tensile Stress (Break)	240	230	MPa	ISO 527-2
Tensile Strain (Break)	2.3	2.0	%	ISO 527-2
Flexural Modulus	13200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	
23°C	12	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	--	kJ/m ²	
23°C	85	--	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	13	--	kJ/m ²	
23°C	12	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	285	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	265	--	°C	ISO 75-2/A
Melting Temperature ¹	300	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.850 mm	HB	--		
1.50 mm	HB	--		
NOTE				

1. First Heat

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