

Zytel® HTN 51G35HSL BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234558		
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Agency Ratings		UL Unspecified Rating		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA6T/XT-GF35<		
Part Marking Code (SAE J1344)		>PPA-GF35<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	11500	MPa	ISO 527-2
Tensile Stress (Break)	210	200	MPa	ISO 527-2
Tensile Strain (Break)	2.4	2.3	%	ISO 527-2
Flexural Modulus	10500	10000	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	9.0	--	kJ/m²	
-30°C	10	9.0	kJ/m²	
23°C	10	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	40	kJ/m²	
23°C	70	--	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	8.0	--	kJ/m²	

23°C	10	--	kJ/m ²	
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	67	--	kJ/m ²	
23°C	65	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	284	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	264	--	°C	ISO 75-2/A
Melting Temperature ¹	300	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.8E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	5.7E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	7.2E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Relative Permittivity				IEC 60250
100 Hz	4.00	--		
1 MHz	3.80	--		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	--		
1 MHz	0.017	--		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	21	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.850 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	26	--	%	ISO 4589-2
Additional Information	Dry	Conditioned		Test Method
Odor	4	--		VDA 270
NOTE				

1. First Heat

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