

Zytel® HTN 52G35HSL BK083

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234544		
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/66-GF35<		
Part Marking Code (SAE J1344)		>PPA-GF35<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11600	--	MPa	ISO 527-2
Tensile Stress (Break)	187	--	MPa	ISO 527-2
Tensile Strain (Break)	2.1	--	%	ISO 527-2
Flexural Modulus	10300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	6.0	kJ/m²	
23°C	8.0	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	35	kJ/m²	
23°C	45	--	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				
	285	--	°C	ISO 75-2/A

Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.1E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.1E-5	--	cm/cm/°C	
Transverse	6.7E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	6.1E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	34	33	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
NOTE				
1.	First Heat			

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