

Zytel® HTN FR52G45BL BK337

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

45% Glass Reinforced, Flame Retardant, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-234552		
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Additive		Lubricant		
		Mold Release		
Features		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6T/66-GF45FR<		
Part Marking Code (SAE J1344)		>PPA-GF45FR<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.76	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	17000	MPa	ISO 527-2
Tensile Stress (Break)	175	155	MPa	ISO 527-2
Tensile Strain (Break)	1.3	1.5	%	ISO 527-2
Flexural Modulus	15200	15200	MPa	ISO 178
Flexural Stress	290	260	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	13	--	kJ/m ²	
23°C	13	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	36	kJ/m ²	
23°C	42	36	kJ/m ²	
Notched Izod Impact Strength (23°C)				ISO 180/1A
12		--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	300	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	284	--	°C	ISO 75-2/A
Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Flow : -40 to 23°C	1.5E-5	--	cm/cm/°C	
Flow : 55 to 160°C	8.0E-6	--	cm/cm/°C	
Transverse	5.0E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	5.0E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	7.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	31	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.90	--		
1 MHz	3.60	--		
Dissipation Factor				IEC 60250
100 Hz	4.5E-3	--		
1 MHz	0.011	--		
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
1.50 mm	V-0	--		
Oxygen Index	49	--	%	ISO 4589-2
NOTE				

1. First Heat

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