

Zytel® HTN FR52G30NHF BK337

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Flame Retardant, Non-Halogenated, PPA, High Performance Polyamide with Improved Flow

General Information				
UL YellowCard		E41938-100132370		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Mold Release		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6T/66-GF30FR<		
Part Marking Code (SAE J1344)		>PPA-GF30FR<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10700	11300	MPa	ISO 527-2
Tensile Stress (Break)	145	135	MPa	ISO 527-2
Tensile Strain (Break)	2.1	1.9	%	ISO 527-2
Flexural Modulus	9800	10800	MPa	ISO 178
Flexural Stress	225	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	7.0	kJ/m ²	
23°C	7.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	35	kJ/m ²	
23°C	45	40	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	281	--	°C	ISO 75-2/A
Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2

Flow	1.8E-5	--	cm/cm/°C	
Flow : -40 to 23°C	1.8E-5	--	cm/cm/°C	
Flow : 55 to 160°C	1.2E-5	--	cm/cm/°C	
Transverse	6.2E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	6.0E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	9.5E-5	--	cm/cm/°C	
RTI Elec				UL 746
0.400 mm	140	--	°C	
0.750 mm	140	--	°C	
1.50 mm	140	--	°C	
3.00 mm	140	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 mm	V-0	--		
1.50 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.400 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.400 mm	700	--	°C	
3.00 mm	775	--	°C	
Oxygen Index	37	--	%	ISO 4589-2
NOTE				
1.	First Heat			

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