

Zytel® HTN FR52G30BL BK337

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

30% Glass Reinforced, Flame Retardant, PPA, High Performance Polyamide

General Information				
UL YellowCard		E41938-100915123	E41938-234547	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Agency Ratings		UL Unspecified Rating		
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	1.62	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11800	--	MPa	ISO 527-2
Tensile Stress (Break)	160	--	MPa	ISO 527-2
Tensile Strain (Break)	2.0	--	%	ISO 527-2
Flexural Modulus	10000	--	MPa	ISO 178
Flexural Stress	240	210	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m²	
23°C	10	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	35	kJ/m²	
23°C	50	35	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)				
	282	--	°C	ISO 75-2/A
Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Flow : -40 to 23°C	2.0E-5	--	cm/cm/°C	

Flow : 55 to 160°C	1.0E-4	--	cm/cm/°C	
Transverse	6.3E-5	--	cm/cm/°C	
Transverse : -40 to 23°C	5.7E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	1.0E-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	3.50	--		
1 MHz	3.30	--		
Dissipation Factor				IEC 60250
100 Hz	5.0E-3	--		
1 MHz	0.014	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
	V-0			
1.50 mm	5VA	--		
Additional Information	Dry	Conditioned	Unit	Test Method
Emission of Organic Compounds	35.0	--	µgC/g	VDA 277
Odor	3	--		VDA 270
NOTE				

1. First Heat

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