

Zytel® HTN FR52G45NHF BK337

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

45% Glass Reinforced, Flame Retardant, Non-Halogenated, PPA, High Performance Polyamide

General Information			
UL YellowCard	E41938-102212557		
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Additive	Flame retardancy		
Features	Halogen-free		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Part Marking Code (ISO 11469)	>PA6T/66-GF45FR(40)		
Part Marking Code (SAE J1344)	>PPA-GF45FR		
Resin ID (ISO 1043)	PA6T/66-GF45FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	1.2	%	ISO 294-4
Flow	0.30	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15700	MPa	ISO 527-2
Tensile Stress (Break)	174	MPa	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	15600	MPa	ISO 178
Flexural Stress	255	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	ISO 179/1eA
23°C	8.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m²	ISO 179/1eU
23°C	47	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	283	°C	ISO 75-2/A
Melting Temperature ¹	310	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2

Flow	1.7E-5	cm/cm/°C	ISO 11359-2
Flow: -40 to 23°C	1.5E-5	cm/cm/°C	ISO 11359-2
Flow: 55 to 160°C	1.5E-5	cm/cm/°C	ISO 11359-2
Lateral	5.5E-5	cm/cm/°C	ISO 11359-2
Horizontal: -40 to 23°C	5.0E-5	cm/cm/°C	ISO 11359-2
Horizontal: 55 to 160°C	9.5E-5	cm/cm/°C	ISO 11359-2
RTI Elec			UL 746
0.40 mm	140	°C	UL 746
0.75 mm	140	°C	UL 746
1.5 mm	140	°C	UL 746
3.0 mm	140	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.75 mm	V-0		UL 94, IEC 60695-11-10, -20
1.5 mm	V-0		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.40 mm	960	°C	IEC 60695-2-12
0.75 mm	960	°C	IEC 60695-2-12
1.5 mm	960	°C	IEC 60695-2-12
3.0 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.40 mm	700	°C	IEC 60695-2-13
0.75 mm	750	°C	IEC 60695-2-13
1.5 mm	750	°C	IEC 60695-2-13
3.0 mm	800	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time - Desiccant Dryer	6.0 - 8.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	320 - 325	°C	
Mold Temperature	90 - 130	°C	
Drying Recommended	yes		
NOTE			
1.	First Heat		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

