Zytel® HTN FR52G30BL BK337 HIGH PERFORMANCE POLYAMIDE RESIN





Technical Data

Product Description					
30% Glass Reinforced, Flame Retard	lant, PPA, High Performance Poly	amide			
General					
Material Status	 Commercial: Active 				
UL Yellow Card ¹	E41938-100915123E41938-234547				
Search for UL Yellow Card	 DuPont Mobility & Material 	S			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America		
Filler / Reinforcement	 Glass Fiber, 30% Filler by 	Weight			
Additive	 Flame Retardant 				
Features	Flame Retardant				
RoHS Compliance	 Contact Manufacturer 				
Multi-Point Data	 Coefficient of Thermal Expansion vs. Temperature (ISO 11403-1) Shear Stress vs. Shear Rate (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2) 				
Part Marking Code (ISO 11469)	>PA6T/66-GF30FR(16+72	<			
Part Marking Code (SAE J1344)	>PPA-GF30FR				
Resin ID (ISO 1043)	• PA6T/66-GF30FR(16+72)				
ISO Designation	• ISO 16396-PA6T/66,GF30	FR(16+72),M1CF1GR,S10-120)		

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 527-1
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
Poisson's Ratio	0.33			
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 179/1el
-30°C	40	35	kJ/m²	
23°C	50	35	kJ/m²	

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Thermal	Dry	Conditioned	Unit	Test Method	
Deflection Temperature Under Load				ISO 75-2/A	
1.8 MPa, Unannealed	282		°C		
Glass Transition Temperature ³	90.0	45.0	°C	ISO 11357-2	
Melting Temperature ⁴	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-5		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-4		cm/cm/°C		
Electrical	Dry	Conditioned	Unit	Test Method	
Volume Resistivity	> 1.0E+13		ohms⋅m	IEC 62631-3-1	
Relative Permittivity				IEC 62631-2-1	
1 MHz	3.30				
100 Hz	3.50				
Dissipation Factor				IEC 62631-2-1	
100 Hz	5.0E-3				
1 MHz	0.014				
Flammability	Dry	Conditioned	Unit	Test Method	
Flame Rating				UL 94	
1.5 mm	V-05VA			IEC 60695-11-10 -20	
3.0 mm	V-0				
Glow Wire Ignition Temperature				IEC 60695-2-13	
0.75 mm	925		°C		
1.5 mm	925		°C		
3.0 mm	960		°C		
Oxygen Index	42		%	ISO 4589-2	
FMVSS Flammability	DNI			FMVSS 302	
Additional Information	Dry	Conditioned	Unit	Test Method	
Emission of Organic Compounds	35.0		μgC/g	VDA 277	
Fogging - F-value (refraction)	95		%	ISO 6452	
Odor	4.50			VDA 270	
njection	Dry Unit				
Drying Temperature	100 °C				
Drying Time - Desiccant Dryer	6.0 to 8.0 hr				
Suggested Max Moisture	< 0.10 %				
Processing (Melt) Temp	320 to 330 °C				
Melt Temperature, Optimum	325 °C				
Mold Temperature		90 to 110 °C			
Drying Recommended		yes			

Notes

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¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

^{3 10°}C/min

⁴ First Heat

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DuPont Mobility & Materials



Where to Buy

Supplier

DuPont Mobility & Materials
Wilmington, Wilmington USA
Telephone: 302-999-4592
Web: http://plastics.dupont.com/

Distributor

Avient Distribution

Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.

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