DuPont Performance Polymers Zytel® HTN FR52G30NHF BK337 Polyphthalamide (PPA)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

30% Glass Reinforced Flame Retardant Non-Halogenated PPA High Performance Polyamide with Improved Flow Zytel HTNFR52G30NHF BK337 is a 30% glass reinforced flame retardant lubricated high performance polyamide resin with improved flow. It is also a PPAInformation provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-FR52G30NHF-BK337-Polyphthalamide-PPA.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	50%RH; ISO 527-1/-2
	145 MPa	21000 psi	DAM; ISO 527-1/-2
Elongation at Break	1.9 %	1.9 %	50%RH; ISO 527-1/-2
	2.1 %	2.1 %	DAM; ISO 527-1/-2
Tensile Modulus	10.7 GPa	1550 ksi	DAM; ISO 527-1/-2
	11.3 GPa	1640 ksi	50%RH; ISO 527-1/-2
Flexural Strength	200 MPa	29000 psi	50%RH; ISO 178
	225 MPa	32600 psi	DAM; ISO 178
Flexural Modulus	9.80 GPa	1420 ksi	DAM; ISO 178
	10.8 GPa	1570 ksi	50%RH; ISO 178
Charpy Impact Unnotched	4.00 J/cm²	19.0 ft-lb/in²	50%RH; ISO 179/1eU
	4.50 J/cm²	21.4 ft-lb/in²	DAM; ISO 179/1eU
	3.50 J/cm² @Temperature -30.0 °C	16.7 ft-lb/in² @Temperature -22.0 °F	50%RH; ISO 179/1eU
	4.00 J/cm²	19.0 ft-lb/in²	DAM; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	DAM; ISO 179/1eA
	0.700 J/cm²	3.33 ft-lb/in²	50%RH; ISO 179/1eA
	0.700 J/cm² @Temperature -30.0 °C	3.33 ft-lb/in² @Temperature -22.0 °F	DAM; ISO 179/1eA
	0.700 J/cm² @Temperature -30.0 °C	3.33 ft-lb/in² @Temperature -22.0 °F	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 µin/in-°F	DAM; ISO 11359-1/-2
	12.0 µm/m-°C @Temperature 55.0 - 160 °C	6.67 µin/in-°F @Temperature 131 - 320 °F	DAM; ISO 11359-1/-2
	18.0 µm/m-°C @Temperature -40.0 - 23.0 °C	10.0 µin/in-°F @Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	62.0 µm/m-°C	34.4 µin/in-°F	DAM; ISO 11359-1/-2
	60.0 µm/m-°C @Temperature -40.0 - 23.0 °C	33.3 µin/in-°F @Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
	95.0 µm/m-°C @Temperature 55.0 - 160 °C	52.8 µin/in-°F @Temperature 131 - 320 °F	DAM; ISO 11359-1/-2
Melting Point	310 °C	590 °F	DAM; first heat; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	281 °C	538 °F	DAM; ISO 75-1/-2
UL RTI, Electrical	140 °C @Thickness 0.400 mm	284 °F @Thickness 0.0157 in	UL 746B
	140 °C @Thickness 0.800 mm	284 °F @Thickness 0.0315 in	DAM; UL 746B
	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	DAM; UL 746B
	140 °C @Thickness 3.00 mm	284 °F @Thickness 0.118 in	UL 746B

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	DAM; IEC 60695-11-10
	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	DAM; IEC 60695-11-10
Oxygen Index	37 %	37 %	DAM; ISO 4589-1/-2
Glow Wire Test	700 °C @Thickness 0.400 mm	1290 °F @Thickness 0.0157 in	DAM; IEC 60695-2-1/2
	775 °C @Thickness 3.00 mm	1430 °F @Thickness 0.118 in	DAM; IEC 60695-2-1/3
	960 °C @Thickness 0.400 mm	1760 °F @Thickness 0.0157 in	DAM; IEC 60695-2-1/2
	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	DAM; IEC 60695-2-1/2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PA6T/66-GF30FR<	ISO 11469
	>PPA-GF30FR<	SAE J1344
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
UL recognition	UL	DAM

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