

DuPont Performance Polymers Zytel® HTN 53G50LWSF BK702A Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

50% Glass Reinforced High Performance Polyamide with Low Warpage and High Stiffness Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-53G50LWSF-BK702A-Polyphthalamide-PPA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	50%RH; ISO 527-1/-2
	270 MPa	39200 psi	DAM; ISO 527-1/-2
Elongation at Break	2.4 %	2.4 %	DAM; ISO 527-1/-2
	2.6 %	2.6 %	50%RH; ISO 527-1/-2
Tensile Modulus	16.0 GPa	2320 ksi	50%RH; ISO 527-1/-2
	17.0 GPa	2470 ksi	DAM; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	50%RH; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	DAM; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	50%RH; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	9.00 J/cm ²	42.8 ft-lb/in ²	DAM; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	DAM; ISO 179/1eA
	1.60 J/cm ²	7.61 ft-lb/in ²	50%RH; ISO 179/1eA
	1.40 J/cm ²	6.66 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	50%RH; ISO 179/1eA
Tensile Creep Modulus, 1 hour	11000 MPa @Time 3600 sec	1.60e+6 psi @Time 1.00 hour	50%RH; ISO 899-1
Tensile Creep Modulus, 1000 hours	8000 MPa @Time 3.60e+6 sec	1.16e+6 psi @Time 1000 hour	50%RH; ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 µm/m-°C	10.6 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	59.0 µm/m-°C	32.8 µin/in-°F	DAM; ISO 11359-1/-2
Melting Point	260 °C	500 °F	DAM; first heat; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	DAM; IEC 60695-11-10
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	DAM; IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	50%RH; IEC 60093
Comparative Tracking Index	550 V	550 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
Special Characteristics	Heat stabilised or stable to heat	
UL recognition	UL	DAM

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