

DuPont Performance Polymers Zytel® HTN 52GM50EF WT001 Polyphthalamide (PPA) (Unverified Data**)

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

Material Notes:

50% Glass/Mineral Reinforced PPA High Performance Polyamide Zytel HTN52GM50EF WT001 is a glass and mineral reinforced high performance polyamide resin developed for LED reflector applications. It is also a PPA resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-52GM50EF-WT001-Polyphthalamide-PPA-Unverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 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	80.0 MPa	11600 psi	DAM; ISO 527-1/-2
Elongation at Break	1.3 %	1.3 %	DAM; ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	DAM; ISO 527-1/-2
Flexural Strength	130 MPa	18900 psi	DAM; ISO 178
Flexural Modulus	6.10 GPa	885 ksi	DAM; ISO 178
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C	25.0 µin/in-°F	DAM; ISO 11359-1/-2
	43.0 µm/m-°C	23.9 µin/in-°F	DAM; ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	51.0 µm/m-°C	28.3 µin/in-°F	DAM; ISO 11359-1/-2
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	DAM; ISO 11359-1/-2
	53.0 µm/m-°C	29.4 µin/in-°F	

Thermal Properties	Metric @ Temperature -40.0 - 23.0 °C	English @ Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2 Comments
	86.0 µm/m-°C	47.8 µin/in-°F	
	@Temperature 55.0 - 160 °C	@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)	200 °C	392 °F	DAM; ISO 75-1/-2

Descriptive Properties	Value	Comments
Part Marking Code	>PA6T/66-(MD+GF)45<	ISO 11469
	>PPA-(MD+GF)45<	SAE J1344
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Special Characteristics	Heat stabilised or stable to heat	

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