

DuPont Performance Polymers Zytel® HTN 54G35HSLR NC010 Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

Material Notes:

35% Glass Reinforced Toughened PPA High Performance Polyamide Zytel HTN54G35HSLR NC010 is a 35% glass reinforced toughened heat stabilized lubricated high performance polyamide resin. 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-54G35HSLR-NC010-Polyphthalamide-PPA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	DAM; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	DAM; ISO 527-1/-2
Flexural Modulus	9.00 GPa	1310 ksi	DAM; ISO 178
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	DAM; ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	50%RH; ISO 179/1eA
	1.20 J/cm ²	5.71 ft-lb/in ²	DAM; ISO 179/1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Creep Modulus, 1 hour	11000 MPa	1.60e+6 psi	50%RH; ISO 899-1
	@Time 3600 sec	@Time 1.00 hour	
Tensile Creep Modulus, 1000 hours	10000 MPa	1.45e+6 psi	50%RH; ISO 899-1
	@Time 3.60e+6 sec	@Time 1000 hour	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	DAM; ISO 11359-1/-2
	20.0 µm/m-°C	11.1 µin/in-°F	

Thermal Properties	Metric @ Temperature -40.0 - 23.0 °C	English @ Temperature -40.0 - 73.4 °F	Comments DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	72.0 µm/m-°C	40.0 µin/in-°F	DAM; ISO 11359-1/-2
	75.0 µm/m-°C @ Temperature -40.0 - 23.0 °C	41.7 µin/in-°F @ Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft²-°F	of solid
Melting Point	300 °C	572 °F	DAM; first heat; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	285 °C	545 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	DAM; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	50%RH; IEC 60093
Dielectric Strength	42.0 kV/mm	1070 kV/in	50%RH; IEC 60243-1
	43.0 kV/mm	1090 kV/in	DAM; IEC 60243-1
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PA-IGF35<	ISO 11469
	>PPA-IGF35<	SAE J1344
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	

Descriptive Properties	Value	Comments
Special Characteristics	Heat stabilised or stable to heat	

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