

Tecomid® HT NT40 GR50 NL HS

Polyphthalamide
Eurotec Engineering Plastics

Message:
PPA, 50% glass fiber reinforced, heat stabilized, natural

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PPA GF50		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.70	%	Internal method
Flow direction	0.20	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	ISO 62
Moisture Content		%	ISO 15512
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	18000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	250	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	13	kJ/m ²	ISO 180/1A
23°C	14	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	305	°C	ISO 75-2/B
1.8 MPa, not annealed	290	°C	ISO 75-2/A
Vicat Softening Temperature	295	°C	ISO 306/B
Melting Temperature ¹	315	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093

Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		UL 94
1.60 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Hopper Temperature	60.0 - 80.0	°C	
Processing (Melt) Temp	320 - 340	°C	
Mold Temperature	140 - 180	°C	
Injection Rate	Fast		
Holding Pressure	40.0 - 80.0	MPa	
Injection instructions			
Pre-drying is not necessary for materials in moisture proof closed bags.			
NOTE			
1.	10 K/min		

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