

Tecomid® HT NT40 MR40 NL HS

Polyphthalamide
Eurotec Engineering Plastics

Message:
PPA, 40% mineral reinforced, heat stabilized, natural

General Information			
Filler / Reinforcement	Mineral filler, 40% 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 MD40		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	1.0	%	Internal method
Flow direction	1.0	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	%	ISO 62
Moisture Content		%	ISO 15512
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	90.0	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	4.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	185	°C	ISO 75-2/A
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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