

Tecomid® HT NT40 CR30 BK111 HS

Polyphthalamide
Eurotec Engineering Plastics

Message:
PPA, 30% carbon fiber reinforced, heat stabilized, black

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PPA CF30		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.80	%	Internal method
Flow direction	0.10	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	%	ISO 62
Moisture Content		%	ISO 15512
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	25000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	275	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	7.0	kJ/m ²	ISO 180/1A
23°C	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	°C	ISO 75-2/A
Melting Temperature ¹	315	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+3	ohms · cm	IEC 60093
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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