

Tecomid® NB40 NL FN70

Polyamide 6
Eurotec Engineering Plastics

Message:
PA6, unfilled, flame retardant - halogen (RoHS compliant), natural, suitable for IEC 60335-1 (E/E devices used for home appliances)

General Information			
Additive	Flame retardancy		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
Agency Ratings	EC 1907/2006 (REACH)		
	IEC 60335-1		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6 FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.90	%	Internal method
Flow direction	0.90	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	ISO 62
Moisture Content		%	ISO 960
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3750	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	70.0	MPa	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			
0.45 MPa, not annealed	200	°C	ISO 75-2/B
1.8 MPa, not annealed	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B

Melting Temperature ¹	223	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		UL 94
1.60 mm	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	850	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Hopper Temperature	60.0 - 80.0	°C	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	40.0 - 90.0	°C	
Injection Rate	Moderate-Fast		
Holding Pressure	50.0 - 100	MPa	
Injection instructions			
Pre-drying is not necessary for materials in moisture proof closed bags.			
NOTE			
1.	10 K/min		

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