

Tecomid® NB40 GR20 NL XA60

Polyamide 6
Eurotec Engineering Plastics

Message:
PA6, 20% glass fiber reinforced, flame retardant - halogen & red phosphorus free, heat stabilized, natural

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
	Flame retardancy		
Features	Phosphorus content, low (to none)		
	Thermal Stability		
	Halogen-free		
	Flame retardancy		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6 GF20 FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.90	%	Internal method
Flow direction	0.30	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	%	ISO 62
Moisture Content		%	ISO 960
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	6.0	kJ/m ²	ISO 180/1A
23°C	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	215	°C	ISO 75-2/B
1.8 MPa, not annealed	200	°C	ISO 75-2/A
Vicat Softening Temperature	210	°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
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-2		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)	800	°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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