

Tecomid® NB40 KG30 NL IX

Polyamide 6
Eurotec Engineering Plastics

Message:
PA6, 30% glass fiber/glass bead reinforced, impact modified, natural

General Information			
Filler / Reinforcement	Glass Beads \Glass Fiber, 30% Filler by Weight		
Additive	Impact modifier		
Features	Impact modification		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6-I (GB+GF)30		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	1.1	%	Internal method
Flow direction	0.40	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.1	%	ISO 62
Moisture Content		%	ISO 960
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	10	kJ/m²	ISO 180/1A
23°C	12	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	205	°C	ISO 75-2/B
1.8 MPa, not annealed	185	°C	ISO 75-2/A
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)	500	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	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Hopper Temperature	60.0 - 80.0	°C	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	60.0 - 100	°C	
Injection Rate	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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