

ECOMID B GF30

Polyamide 6

Nilit Plastics

Message:

ECOMID® B GF30 is a Polyamide 6 (Nylon 6) compound, 30% glass fiber reinforced.
This eco friendly compound is intended for injection molding.
ECOMID® B GF30 is primarily designed for the Automotive industry.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Recycled Content	Yes		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.80	%	
Flow : 25°C	0.40	%	
Water Absorption			ISO 62
23°C, 24 hr	1.8	%	
Saturation, 23°C	6.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m²	
23°C	6.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m²	
23°C	40	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Continuous Use Temperature ¹	105	°C	IEC 60216
Ball Pressure Test (127°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093

Comparative Tracking Index (3.20 mm, Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	650	°C	
3.20 mm	650	°C	
NOTE			
1.	20002 hrs		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

