

Badamid® LB70 GF30

Polyamide 6

Bada AG

Message:

30% Glass fibres reinforced injection moulding grade for technical and electrical isolating products

General Information				
UL YellowCard		E189230-227327	E189230-580742	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Uses		Electrical/Electronic Applications		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.3 to 6.9	--	%	
Equilibrium, 23°C, 50% RH	1.9 to 2.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	9500	6000	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	190	115	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	3.5	8.0	%	ISO 527-2/5
Flexural Stress ⁴ (23°C)	270	180	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	--	kJ/m ²	
23°C	15	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	--	kJ/m ²	
23°C	95	110	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	11	--	kJ/m ²	
23°C	16	20	kJ/m ²	
Thermal	Dry	Conditioned	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

Melting Temperature (DSC) 5	222	--	°C	ISO 3146
CLTE				DIN 53752
Flow	2.0E-5 to 2.5E-5	--	cm/cm/°C	
Transverse	6.0E-5 to 7.0E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 60216
-- 6	135	--	°C	
--	200	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.80	6.80		IEC 60250
Dissipation Factor (1 MHz)	0.023	0.22		IEC 60250
Comparative Tracking Index	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				

1. Test Specimen according to ISO 3167, Type A

2. Test Specimen according to ISO 3167, Type A

3. Test Specimen according to ISO 3167, Type A

4. Test Specimen according to ISO 3167, Type A

5. 10 K/min

6. 20000 hr

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