

Badamid® LA70 GF30

Polyamide 66

Bada AG

Message:

30% glass fibres reinforced injection moulding grade for housing with high stiffness and dimensional stability for electrical isolating products

General Information				
UL YellowCard		E189230-227345		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Dimensional Stability		
		High Stiffness		
Uses		Electrical/Electronic Applications		
		Housings		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.7 to 5.3	--	%	
Equilibrium, 23°C, 50% RH	1.3 to 1.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	8500	6000	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	140	100	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	3.5	6.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	19	26	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	--	kJ/m ²	
23°C	90	95	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	15	18	kJ/m ²	
23°C	17	20	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature (DSC) 4	260	--	°C	ISO 3146
CLTE				DIN 53752
Flow	2.5E-5 to 3.5E-5	--	cm/cm/°C	
Transverse	6.0E-5 to 7.0E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 60216
-- 5	105	--	°C	
--	220	--	°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)	3.50	5.50		IEC 60250
Dissipation Factor (1 MHz)	0.014	0.16		IEC 60250
Comparative Tracking Index	550	--	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	280 to 300		°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.	10 K/min			
5.	20000 hr			

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