Badamid® LB70 GF/GK30

Polyamide 6

Bada AG

Message:

Badamid® LB70 GF/GK30 is a Polyamide 6 (Nylon 6) material filled with 30% glass bead\glass fiber. It is available in Europe. Primary attribute of Badamid® LB70 GF/GK30: Flame Rated.

General Information				
UL YellowCard		E189230-580739		
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.34	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.6	--	%	
Equilibrium, 23°C, 50% RH	7.1	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	6000	3000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	110	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.5	15	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m²	
23°C	5.0	11	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	39	--	kJ/m²	
23°C	40	90	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Melting Temperature (DSC) [1]	220	--	°C	ISO 3146
CLTE - Flow	3.8E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 60216
-- [2]	110	--	°C	
--	200	--	°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**

Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.90	4.60		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.070		IEC 60250
Comparative Tracking Index	425	--	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	260 to 280		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				
1.	10 K/min			
2.	20000 H			

Recommended distributors for this material

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