

Badamid® LB70 GF M35 FR HF

Polyamide 6

Bada AG

Message:

Halogen free flame retardant, 35% glass fibres and mineral reinforced injection moulding grade with superior mechanical properties

General Information				
UL YellowCard		E189230-227341		
Filler / Reinforcement		Glass\Mineral,35% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.7 to 6.3	--	%	
Equilibrium, 23°C, 50% RH	1.7 to 2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	8000	3800	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	90.0	50.0	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	2.5	6.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.8	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	170	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	222	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	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	V-2	--		
1.60 mm	V-2	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	250 to 270		°C	
Mold Temperature	60.0 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

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