

Badamid® PA12 GM30 H S2

Polyamide 12

Bada AG

Message:

Badamid® PA12 GM30 H S2 is a Polyamide 12 (Nylon 12) material filled with 30% glass fiber. It is available in Europe. Primary attribute of Badamid® PA12 GM30 H S2: Flame Rated.

General Information			
UL YellowCard	E189230-101358202		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	1.1	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4000	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527-2/50
Tensile Strain			
Yield, 23°C	4.0	%	ISO 527-2/50
Break, 23°C	12	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m ²	
23°C	12	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m ²	
23°C	80	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
Melting Temperature (DSC) ¹	178	°C	ISO 3146
CLTE			DIN 53752
Flow	5.5E-5	cm/cm/°C	
Transverse	5.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Electric Strength	38	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	6.0 to 8.0	hr	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	40.0 to 60.0	°C	
NOTE			
1.	10 K/min		

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