

Badamid® PA12 GM/GR40 H

Polyamide 12

Bada AG

Message:

PA12 injection moulding grade with 40% milled glass fibres and graphite reinforcement; Grade with high wear resistance and low surface friction for tribological applications

General Information			
Filler / Reinforcement	Glass Milled\Graphite,40% Filler by Weight		
Features	Good Wear Resistance		
	Low Friction		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	5100	MPa	ISO 3167-A
Tensile Stress (Yield, 23°C)	75.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	11	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m ²	
23°C	70	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	140	°C	ISO 75-2/A
Melting Temperature (DSC) ²	178	°C	ISO 3146
Flammability	Nominal Value		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	4.0 to 8.0	hr	
Processing (Melt) Temp	220 to 260	°C	

Mold Temperature	40.0 to 60.0	°C
NOTE		
1.	1 mm/min	
2.	10 K/Min	

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