

Badamid® PA12 GF30 TM-Z1 FR HF natur S4

Polyamide 12

Bada AG

Message:

PA12 injection moulding grade with 30% glass fibre reinforcement; flame retardant, halogen free

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	8000	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	100	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	4.1	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	178	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	675	°C	IEC 60695-2-13
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.	Test Specimen accordng to ISO 3167, Type A
2.	Test Specimen accordng to ISO 3167, Type A
3.	Test Specimen accordng to ISO 3167, Type A
4.	10 K/Min

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