

Badamid® PA12 H

Polyamide 12

Bada AG

Message:

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

General Information			
Additive	heat stabilizer		
Features	Thermal Stability		
Uses	Cable sheath		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/1.0 kg)	9.0	g/10 min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Durometer Hardness (Shore D)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	1700	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	47.0	MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 23°C)	4.0	%	ISO 527-2/50
Nominal Tensile Strain at Break ⁴ (23°C)	> 200	%	ISO 527-2/50
Flexural Modulus ⁵ (23°C, 4.00 mm)	1500	MPa	ISO 178
Flexural Stress ⁶ (23°C, 4.00 mm)	60.0	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	95.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°C	ISO 75-2/A
Melting Temperature (DSC) ⁷	180	°C	ISO 3146
CLTE - Flow	1.3E-4	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (1.00 mm)	1.0E+15	ohms · cm	IEC 60093
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.	Test Specimen accordng to ISO 3167, Type A
5.	Test Specimen accordng to ISO 3167, Type A
6.	Test Specimen accordng to ISO 3167, Type A
7.	10 K/Min

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