

Badamid® PA12 M20 FR V5

Polyamide 12

Bada AG

Message:

Badamid® PA12 M20 FR V5 is a polyamide 12 (nylon 12) material. This product is available in Europe, and the processing method is injection molding.
Badamid® The main characteristics of PA12 M20 FR V5 are: flame retardant/rated flame.

General Information			
UL YellowCard	E189230-102487589		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	40.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	1.0	%	ISO 62
Equilibrium, 23°C, 50% RH	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1600	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ² (1.8 MPa, Unannealed, 4.00 mm)	150	°C	ISO 75-2/A
Melting Temperature (DSC) ³	178	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.40 mm	V-0		UL 94
3.0 mm	V-0		UL 94
Glow Wire Flammability Index (1.6 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.6 mm)	775	°C	IEC 60695-2-13
Additional Information			
Maximum Service Temperature, IEC 216, some hours: 140°CMaximum Service Temperature, IEC 216, 20000 hours: 110°C			
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	4.0 - 8.0	hr	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	40 - 60	°C	
NOTE			
1.	80x10x4 mm		

2.	110x10x4 mm
3.	Compound for molding, 10k/min

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