

Badamid® PPA GF30 H FR HF

Polyphthalamide

Bada AG

Message:

Heat stabilized injection moulding grade based on a partially aromatic Polyphthalamid; Halogen and red phosphorous free flame retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
	Flame retardancy		
Features	Phosphorus content, low (to none)		
	Thermal Stability		
	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	10500	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	215	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	2.4	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	285	°C	ISO 75-2/B
1.8 MPa, not annealed	270	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	313	°C	ISO 3146
Linear thermal expansion coefficient			DIN 53752
Flow	3.0E-5	cm/cm/°C	DIN 53752
Lateral	7.0E-5	cm/cm/°C	DIN 53752
Maximum Service Temperature			IEC 60216
--	270	°C	IEC 60216
-- ⁵	160	°C	IEC 60216
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method

Flame Rating			UL 94
0.8 mm	V-0		UL 94
1.6 mm	V-0		UL 94
Glow Wire Flammability Index (0.8 to 1.6mm)			IEC 60695-2-12
	850	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	320 - 340	°C	
Mold Temperature	120 - 140	°C	
NOTE			
1.	Test Specimen according to ISO 3167, Type A		
2.	Test Specimen according to ISO 3167, Type A		
3.	Test Specimen according to ISO 3167, Type A		
4.	10 K/min		
5.	20000 hr		

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