

Badamid® PPA CF30

Polyphthalamide

Bada AG

Message:

Heat stabilized 30% carbon fibres reinforced injection moulding grade based on a partly aromatic Polyamide

General Information				
Filler / Reinforcement		Carbon fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	2.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.80	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	26500	25500	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	260	220	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	1.3	1.8	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	6.0	kJ/m ²	ISO 179/1eA
23°C	9.0	10	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	295	--	°C	ISO 75-2/B
1.8 MPa, not annealed	285	--	°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	6.0E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 60216
--	270	--	°C	IEC 60216
-- ⁵	180	--	°C	IEC 60216

Flammability	Dry	Conditioned	Test Method
Flame Rating			UL 94
0.8 mm	HB	--	UL 94
1.6 mm	HB	--	UL 94
Injection	Dry	Unit	
Drying Temperature	80		°C
Drying Time	2.0 - 4.0		hr
Processing (Melt) Temp	330		°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

