

Badamid® UL C70 GF20 FR

Polyamide 66/6 Copolymer

Bada AG

Message:

Badamid® UL C70 GF20 FR is a polyamide 66/6 copolymer (nylon 66/6) material, which contains a 20% glass fiber reinforced material. This product is available in Europe. Badamid® The main characteristics of UL C70 GF20 FR are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 20% filler by weight		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.50	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	4.6	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8500	6500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	3.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	11	kJ/m ²	ISO 179/1eA
23°C	11	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	60	kJ/m ²	ISO 179/1eU
23°C	60	75	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	8.0	8.0	kJ/m ²	ISO 180/1A
23°C	9.0	12	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	230	--	°C	ISO 75-2/B
1.8 MPa, not annealed	215	--	°C	ISO 75-2/A
Melting Temperature (DSC)	243	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	IEC 60093
Dielectric Constant (1 MHz)	3.60	5.20		IEC 60250

Dissipation Factor (1 MHz)	0.016	0.16		IEC 60250
Comparative Tracking Index	375	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-0	--		UL 94
Additional Information				
干燥 Short-Term Heat Resistance, IEC 216, 20000 hrs: 190°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 100°C				
Injection	Dry	Unit		
Processing (Melt) Temp	270 - 290		°C	
Mold Temperature	70.0 - 90.0		°C	
NOTE				
1.	110x10x4mm			

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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



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