Badamid® UL A70 GF30 H FR

Polyamide 66

Bada AG

Message:

Badamid® UL A70 GF30 H FR is a polyamide 66 (nylon 66) material, which contains a 30% glass fiber reinforced material. This product is available in Europe. Badamid® The main characteristics of UL A70 GF30 H FR are: flame retardant/rated flame.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.37	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	5.1	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10800	7500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	170	125	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	8.0	kJ/m²	ISO 179/1eA
23°C	9.0	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	65	kJ/m²	ISO 179/1eU
23°C	65	70	kJ/m²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	6.0	7.0	kJ/m²	ISO 180/1A
23°C	9.0	11	kJ/m²	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature [1]				
0.45 MPa, not annealed	250	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC)	262	--	°C	ISO 3146
Linear thermal expansion coefficient				ISO 11359-2
Flow: 4.00mm	1.8E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 4.00mm	6.5E-5	--	cm/cm/°C	ISO 11359-2

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	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.10		IEC 60250
Comparative Tracking Index	400	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-0	--		UL 94
1.60 mm	V-0	--		UL 94

Additional Information
干燥 Short-Term Heat Resistance, IEC 216, 20000 hrs: 230°CLong-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 120°C

Injection	Dry	Unit
Processing (Melt) Temp	280 - 300	°C
Mold Temperature	80.0 - 100	°C

NOTE		
1.	110x10x4mm	

Recommended distributors for this material

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