





Bada BADAMID® A70 GF/GK30 natural Nylon 66, 30% Glass Bead/Fiber Reinforced, Dry

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 66 \(PA66\)](#); [Nylon 66, 30% Glass Fiber Filled](#); [Nylon 66, Glass Bead Filled](#)

Material Notes: PA66 injection molding grade with 30% glass fiber and glass beads reinforcement, for dimensional stable parts

Information provided by Bada

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Moisture Absorption	2.00 %	2.00 %	50% r.h.; ISO 62
Water Absorption at Saturation	6.0 %	6.0 %	ISO 62
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	5 mm/min; ISO 527-1/2
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527-1/2
Tensile Modulus	7.10 GPa	1030 ksi	1 mm/min; ISO 527-1/2
Izod Impact, Notched (ISO) 	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched 	3.20 J/cm ²	15.2 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.80 J/cm ²	18.1 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched 	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC-62631-3-1
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC-62631-3-2
Dielectric Constant	3.5	3.5	IEC-62631-2-1
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.015	0.015	IEC-62631-2-1
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	500 V	500 V	IEC-60112
Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	10 K/min; ISO 3146
Maximum Service Temperature, Air	220 °C	428 °F	some hours; EC-60216
	110 °C	230 °F	EC-60216
	@Time 7.20e+7 sec	@Time 20000 hour	
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	ISO 75-1/2
Flammability, UL94 	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this database as they were originally entered into MatWeb.

