Badamid® A70 GF15

PA66-GF15 — Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**6000 / 4300**	MPa	ISO 527
Stress at break	**130 / 85**	MPa	ISO 527
Strain at break	**3 / 5**	%	ISO 527
Flexural strength	**190 / 125**	MPa	ISO 178
Charpy impact strength, +23°C	**43 / 70**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**40 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**8 / 11**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**7 / -**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**5.5 / 6.5**	kJ/m²	ISO 180/1A
Izod notched impact strength	**4 / -**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**262 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**250 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**250 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**34 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**75 / ***	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**3.0 / ***	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.5 / 5.5**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**140 / 1600**	E-4	IEC 62631-2-1
Volume resistivity	**1E13 / 1E10**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E10**	Ohm	IEC 62631-3-2
Electric strength	**35 / 30**	kV/mm	IEC 60243-1
Comparative tracking index	**500 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**7.2 / ***	%	Sim. to ISO 62
Humidity absorption	**2.4 / ***	%	Sim. to ISO 62
Density	**1230 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.15**	%	-
Melt temperature	**280 - 300**	°C	-
Mold temperature	**80 - 90**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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