Badamid® A70 GF30 TM-Z2 S1

PA66-GF30 — Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**8500 / 6200**	MPa	ISO 527
Stress at break	**140 / 100**	MPa	ISO 527
Strain at break	**3.5 / 6**	%	ISO 527
Charpy impact strength, +23°C	**90 / 95**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**80 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**20 / 25**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**10 / -**	kJ/m²	ISO 179/1eA

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	**240 / ***	°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	**31 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**66 / ***	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	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 / 1000**	E-4	IEC 62631-2-1
Volume resistivity	**1E13 / 1E10**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E10**	Ohm	IEC 62631-3-2
Comparative tracking index	**500 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**4.9 / ***	%	Sim. to ISO 62
Humidity absorption	**1.6 / ***	%	Sim. to ISO 62
Density	**1320 / -**	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

Special Characteristics

High impact or impact modified

Regional Availability

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