Badamid® B70 GF25 TM-Z2

PA6-GF25 Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**6200 / 4200**	MPa	ISO 527
Stress at break	**120 / 85**	MPa	ISO 527
Strain at break	**4.5 / 7**	%	ISO 527
Charpy impact strength, +23°C	**85 / 100**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**65 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15 / 25**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**222 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**200 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**210 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**30 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**70 / ***	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	**3.8 / 7**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**240 / 2400**	E-4	IEC 62631-2-1
Volume resistivity	**1E14 / 1E11**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E11**	Ohm	IEC 62631-3-2
Comparative tracking index	**500 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**6.7 / ***	%	Sim. to ISO 62
Humidity absorption	**2.1 / ***	%	Sim. to ISO 62
Density	**1260 / -**	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	**270 - 290**	°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