Badamid® PA46 GF25

PA46-GF25 Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**8500 / 5000**	MPa	ISO 527
Stress at break	**180 / 110**	MPa	ISO 527
Strain at break	**2 / 5**	%	ISO 527
Charpy impact strength, +23°C	**65 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10 / 17**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**270 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**280 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**25 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**60 / ***	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	**0.8 / ***	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**4.3 / 16**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**200 / 1000**	E-4	IEC 62631-2-1
Volume resistivity	**1E13 / 1E8**	Ohm*m	IEC 62631-3-1
Electric strength	**30 / 20**	kV/mm	IEC 60243-1
Comparative tracking index	**300 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**9 / ***	%	Sim. to ISO 62
Humidity absorption	**2.6 / ***	%	Sim. to ISO 62
Density	**1370 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 6**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**305 - 320**	°C	-
Mold temperature	**80 - 120**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

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