Badamid® PA46 CF30

PA46-CF30 Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**23000 / 15000**	MPa	ISO 527
Stress at break	**230 / 185**	MPa	ISO 527
Strain at break	**1 / 2**	%	ISO 527
Flexural modulus, 23°C	**18000 / 9000**	MPa	ISO 178
Charpy impact strength, +23°C	**55 / 60**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**40 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6 / 8**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**5 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**295 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**285 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**10 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**30 / ***	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			
Volume resistivity	**10 / -**	Ohm*m	IEC 62631-3-1

Other properties	dry / cond	Unit	Test Standard
Water absorption	**9 / ***	%	Sim. to ISO 62
Humidity absorption	**2.5 / ***	%	Sim. to ISO 62
Density	**1280 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**310 - 325**	°C	-
Mold temperature	**80 - 140**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

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