Badamid® PPA-GP GF45 HHC

PPA-GF45 Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**14500 / 13000**	MPa	ISO 527
Stress at break	**210 / 195**	MPa	ISO 527
Strain at break	**1.8 / 2.4**	%	ISO 527
Charpy impact strength, +23°C	**60 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**310 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**270 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**285 / ***	°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	**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			
Volume resistivity	**1E10 / -**	Ohm*m	IEC 62631-3-1
Electric strength	**35 / -**	kV/mm	IEC 60243-1
Comparative tracking index	**600 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**3.5 / ***	%	Sim. to ISO 62
Humidity absorption	**1.5 / ***	%	Sim. to ISO 62
Density	**1450 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**320 - 340**	°C	-
Mold temperature	**80 - 90**	°C	-

Characteristics

Processing
Injection Molding

Chemical Resistance
Hydrolytically Stable

Special Characteristics
Heat stabilized or stable to heat

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