

Badamid® PA610 GF30

PA610-GF30

Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8000 / 7100	MPa	ISO 527
Stress at break	150 / 130	MPa	ISO 527
Strain at break	3.5 / 7	%	ISO 527
Flexural modulus, 23°C	7600 / -	MPa	ISO 178
Flexural strength	220 / -	MPa	ISO 178
Charpy impact strength, +23°C	80 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	12 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220 / *	°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
Temp. of deflection under load, 8.00 MPa	140 / *	°C	ISO 75-1/-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	1E11 / -	Ohm*m	IEC 62631-3-1
Electric strength	30 / -	kV/mm	IEC 60243-1
Comparative tracking index	550 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.4 / *	%	Sim. to ISO 62
Humidity absorption	0.6 / *	%	Sim. to ISO 62
Density	1300 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	240 - 290	°C	-
Mold temperature	80 - 100	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

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