Badamid® A70 SM-Z3

PA66 Bada AG

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**2100 / 1100**	MPa	ISO 527
Yield stress	**60 / 45**	MPa	ISO 527
Yield strain	**6 / 37**	%	ISO 527
Nominal strain at break	**38 / >50**	%	ISO 527
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**40 / 55**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**42 / 54**	kJ/m²	ISO 180/1A

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**262 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**65 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**180 / ***	°C	ISO 75-1/-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	**3.3 / 3.6**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**240 / 600**	E-4	IEC 62631-2-1
Volume resistivity	**1E12 / 1E10**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E12**	Ohm	IEC 62631-3-2
Comparative tracking index	**600 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**6.8 / ***	%	Sim. to ISO 62
Humidity absorption	**2.2 / ***	%	Sim. to ISO 62
Density	**1090 / -**	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	**280 - 300**	°C	-
Mold temperature	**60 - 80**	°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