BERGAMID® A700

PA66 — Avient Corporation

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**3200 / 1600**	MPa	ISO 527
Yield stress	**80 / 60**	MPa	ISO 527
Yield strain	**4.5 / 25**	%	ISO 527
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6 / 25**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**4 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**261 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**80 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**220 / ***	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-
Burning behav. at thickness h	**V-2 / ***	class	IEC 60695-11-10
Thickness tested	**0.4 / ***	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.6 / 5**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**260 / 2000**	E-4	IEC 62631-2-1
Volume resistivity	**1E13 / 1E10**	Ohm*m	IEC 62631-3-1
Surface resistivity	*** / 1E10**	Ohm	IEC 62631-3-2
Electric strength	**120 / 80**	kV/mm	IEC 60243-1
Comparative tracking index	**600 / 600**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**8.5 / ***	%	Sim. to ISO 62
Humidity absorption	**2.8 / ***	%	Sim. to ISO 62
Density	**1130 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Melt temperature	**270 - 290**	°C	-
Mold temperature	**40 - 80**	°C	-
Back pressure	**50 - 100**	MPa	-

Characteristics

Processing

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets