

Product Texts

General purpose, Unreinforced

ISO 1043 PA66

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3600 / 1700	MPa	ISO 527
^[C] Yield stress	95 / 60	MPa	ISO 527
^[C] Yield strain	4.5 / 18	%	ISO 527
^[C] Nominal strain at break	5 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	150 / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	100 / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	- / 12	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	263 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	75 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	230 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	70 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.8 / 4.4	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.4 / 4.1	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	70 / 1100	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	170 / 900	E-4	IEC 62631-2-1
^[C] Electric strength	30 / 30	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	8.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.8 / *	%	Sim. to ISO 62
^[C] Density	1140 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	144 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

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

Other text information

Injection molding

PREPROCESSING

Residual moisture content: 0.03 - 0.12%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 275 - 295 °C

Mold temperature: 80 - 100 °C