

Product Texts

PA 6 standard grade

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2800 / 1100	MPa	ISO 527
^[C] Yield stress	85 / 45	MPa	ISO 527
^[C] Yield strain	3.5 / 18	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8 / 35	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	5 / -	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	70 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	190 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	195 / *	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E11 / 1E8	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	2.9 / *	%	Sim. to ISO 62
^[C] Density	1130 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	140 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	250 - 270	°C	-
Mold temperature	60 - 90	°C	-

Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Granules

Regional AvailabilityNorth America, Europe, Asia Pacific, South and Central America,
Near East/Africa**Other text information****Injection molding**PREPROCESSING; **Pretreatment**

Predrying: 4-6h / 80°C

PROCESSING ;Processing:

Melttemperature	250 - 270	°C
Mouldtemperature	60 - 90	°C