

Product Texts

Impact Modified, Injection Molding

ISO 1043 PA6-I

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	19 / *	cm ³ /10min	ISO 1133
Temperature	230 / *	°C	-
Load	2.16 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1900 / -	MPa	ISO 527
^[C] Yield stress	45 / -	MPa	ISO 527
^[C] Yield strain	4.2 / -	%	ISO 527
^[C] Nominal strain at break	30 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	42 / N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	15.5 / -	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	53 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	87 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	100 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	180 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	9E12 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 3E13	Ohm	IEC 62631-3-2
^[C] Electric strength	29 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	2.2 / *	%	Sim. to ISO 62
^[C] Density	1070 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Delivery form

Pellets, Natural Color

Regional Availability

Asia Pacific

Additives

Release agent

Other text information

Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)