

Product Texts

Low/Medium Viscosity

ISO 1043 PA66

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	969	kg/m ³	-
^[C] Thermal conductivity of melt	0.13	W/(m K)	-
^[C] Spec. heat capacity of melt	2750	J/(kg K)	-
^[C] Eff. thermal diffusivity	4.87E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3500 / 1500	MPa	ISO 527
^[C] Yield stress	95 / 60	MPa	ISO 527
^[C] Yield strain	3.5 / 20	%	ISO 527
^[C] Nominal strain at break	10 / >50	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	6 / 12	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	6 / 6	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	80 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	225 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
^[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	V-2 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.2 / 10	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3 / 4	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	60 / 1400	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	170 / 1000	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	25 / 20	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	8.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.3 / *	%	Sim. to ISO 62
^[C] Density	1140 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Additives

Lubricants

Delivery form

Pellets

Regional Availability

Europe, Asia Pacific

Other text information**Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)