

Product Texts

Heat Stabilized, Lubricated

ISO 1043 PA46

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	987	kg/m ³	-
^[C] Thermal conductivity of melt	0.261	W/(m K)	-
^[C] Spec. heat capacity of melt	2790	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.11E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3300 / 1000	MPa	ISO 527
^[C] Yield stress	100 / 55	MPa	ISO 527
^[C] Yield strain	10 / 20	%	ISO 527
^[C] Nominal strain at break	40 / >50	%	ISO 527
^[C] Tensile creep modulus, 1000h	* / 550	MPa	ISO 899-1
^[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	10 / 35	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4 / 4	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	295 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	75 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	190 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	280 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	290 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	85 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110 / *	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] Oxygen index	27 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4 / 13	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.6 / 4.3	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	70 / 1400	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	260 / 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 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	13.5 / *	%	Sim. to ISO 62

Stanyl® TE341

PA46

Envalior

[C] Humidity absorption	3.7 / *	%	Sim. to ISO 62
[C] Density	1180 / -	kg/m ³	ISO 1183
[C]: CAMPUS			

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Viscosity number	185 / *	cm ³ /g	ISO 307, 1157, 1628
[C]: CAMPUS			

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Additives

Lubricants, Release agent

Other text information**Injection molding**[Injection Molding Recommendations](#)[Hot runner recommendations for molding high heat performance Engineering Materials](#)[Steel recommendations for molds screws and barrels](#)[Supporting document for Stanyl quality processing](#)[Trouble shooting guideline for injection molding](#)