

Product Texts

30% Glass Reinforced, Heat Stabilized

ISO 1043 PA46-GF30

Stanyl® TE200F6 is an electro-friendly high heat polyamide that offers excellent creep resistance, strength, stiffness and fatigue resistance especially at high temperatures in combination with cycle-time advantages and excellent flow.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	1280	kg/m ³	-
^[C] Thermal conductivity of melt	0.28	W/(m K)	-
^[C] Spec. heat capacity of melt	2430	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.02E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10000 / 6000	MPa	ISO 527
^[C] Stress at break	210 / 115	MPa	ISO 527
^[C] Strain at break	3.7 / 6	%	ISO 527
^[C] Tensile creep modulus, 1000h	* / 4500	MPa	ISO 899-1
^[C] Charpy impact strength, +23°C	80 / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	65 / 75	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	12 / 21	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	11 / 11	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	290 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	290 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	290 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	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	3.0 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Oxygen index	22 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.4 / 12	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4 / 4.6	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	80 / 1500	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	230 / 900	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 25	kV/mm	IEC 60243-1
^[C] Comparative tracking index	500 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	9.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.6 / *	%	Sim. to ISO 62
^[C] Density	1410 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Features

Low Warpage

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Platable, Heat stabilized or stable to heat

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](#)