

Product Texts

Heat Stabilized, Wear and Friction Modified

ISO 1043 PA46

Stanyl® TE373 is a friction-modified high heat polyamide that offers excellent wear & friction properties in combination with outstanding 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	1000	kg/m ³	-
^[C] Thermal conductivity of melt	0.253	W/(m K)	-
^[C] Spec. heat capacity of melt	2780	J/(kg K)	-
^[C] Eff. thermal diffusivity	8.96E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2800 / 1000	MPa	ISO 527
^[C] Yield stress	85 / 50	MPa	ISO 527
^[C] Yield strain	10 / 20	%	ISO 527
^[C] Nominal strain at break	10 / 15	%	ISO 527
^[C] Charpy impact strength, +23°C	150 / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	105 / 120	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	5 / 10	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] 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]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	12.4 / *	%	Sim. to ISO 62
^[C] Humidity absorption	3.4 / *	%	Sim. to ISO 62
^[C] Density	1170 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	180 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

Tribologic Grade

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific

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](#)