

Product Texts

Heat Stabilized, Wear and Friction Modified

ISO 1043 PA46

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Density of melt	913	kg/m ³	-
^[C] Thermal conductivity of melt	0.24	W/(m K)	-
^[C] Spec. heat capacity of melt	2550	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.82E-7	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2500 / 700	MPa	ISO 527
^[C] Yield stress	75 / 40	MPa	ISO 527
^[C] Yield strain	18 / 30	%	ISO 527
^[C] Nominal strain at break	35 / -	%	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	22 / 130	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	14 / 16	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] Coeff. of linear therm. expansion, parallel	90 / *	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] Humidity absorption	3.7 / *	%	Sim. to ISO 62
^[C] Density	1140 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Profile Extrusion, Other Extrusion

Features
Tribologic Grade

Delivery form
Granules

Regional Availability
North America, Europe, Asia Pacific

Special Characteristics
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](#)