Stanyl® TW376

PA46 Envalior

Product Texts

Unreinforced, Heat Stabilized, Wear and Friction Modified

ISO 1043 PA46

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Density of melt	**913**	kg/m³	-
[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**	m²/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/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**22 / 130**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**14 / 16**	kJ/m²	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/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Profile Extrusion, Other Extrusion

Special Characteristics
Heat stabilized or stable to heat

Delivery form
Granules

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