

Product Texts

30% Carbon Reinforced, Heat Stabilized, Lubricated

ISO 1043 PA46-CF30

Stanyl® TW200B6 is a 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. TW200B6 has an excellent track-record in gear applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	23500 / 13500	MPa	ISO 527
^[C] Stress at break	250 / 165	MPa	ISO 527
^[C] Strain at break	1.7 / 3	%	ISO 527
^[C] Charpy impact strength, +23°C	60 / 75	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	50 / 50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8 / 14	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	6.5 / 6.5	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] Coeff. of linear therm. expansion, parallel	8 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	34 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	10000 / -	Ohm*m	IEC 62631-3-1

[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	1290 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Additives

Lubricants

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](#)