

TECHNICAL DATA SHEET

Stanyl® TW275F6

Envalior
PA46-GF30

Processing

Injection molding

Heat stabilized or stable to heat

Features

Tribological grade

Special Characteristics

Product Text

Product Information

30% Glass Reinforced, Heat Stabilized, Wear and Friction Modified

ISO 1043 PA46-GF30

Mechanical Properties	Value	Unit	Standard
Stress at break	205	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Charpy impact strength, +23°C	75	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m ²	ISO 179/1eA

Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	295	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	75	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	285	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	290	°C	ISO 75-1/-2
Vicat softening temperature, B	290	°C	ISO 306
Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2

Other Properties	Value	Unit	Standard
Water absorption	9	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62

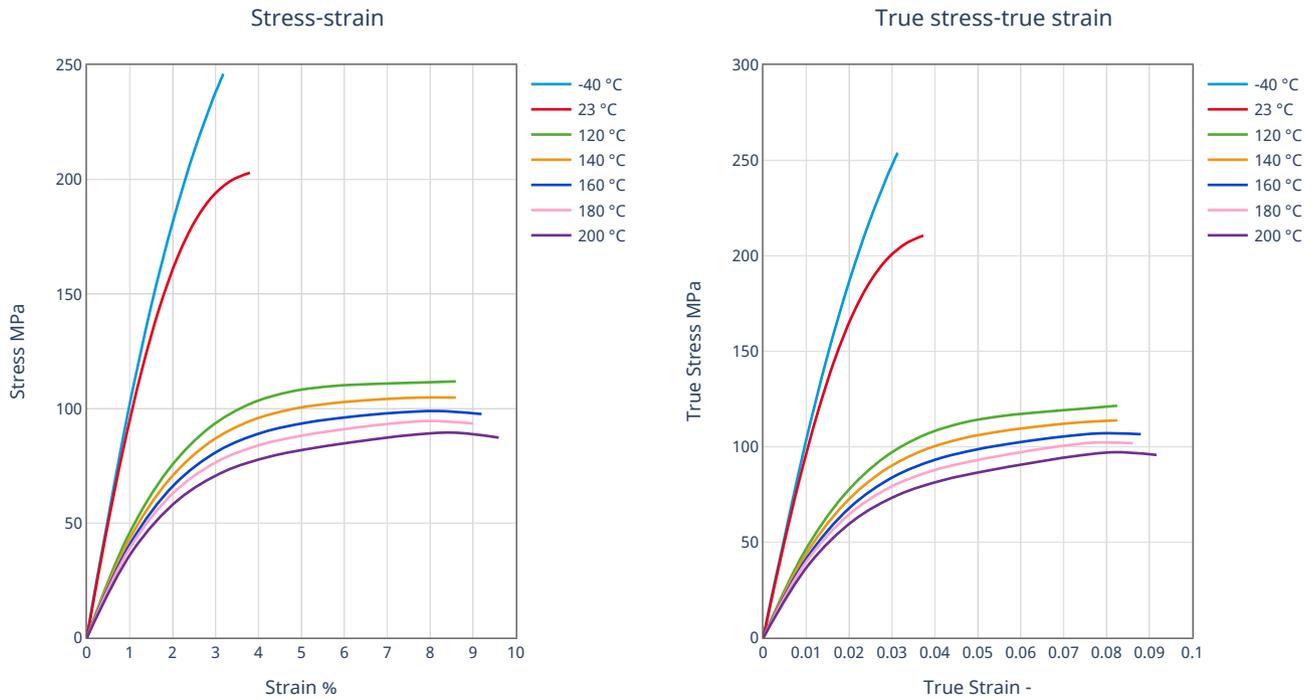
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Other Properties	Value	Unit	Standard
Density	1430	kg/m ³	ISO 1183

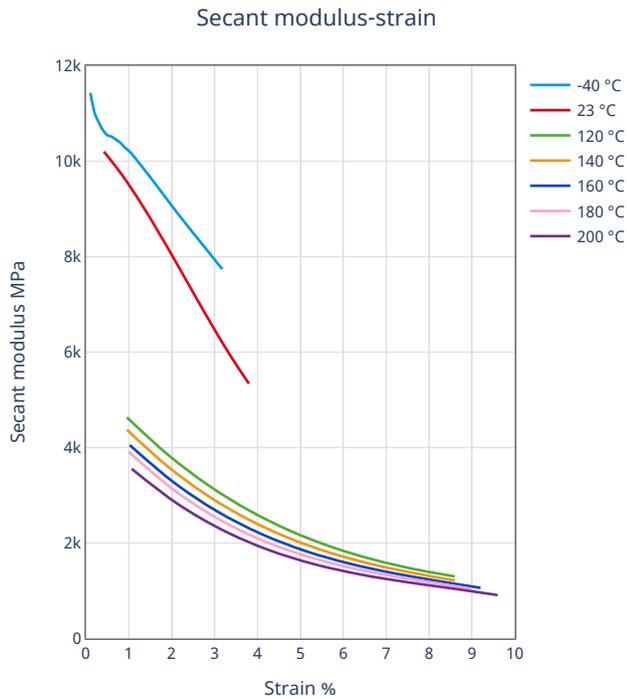
Material Specific Properties	Value	Unit	Standard
Viscosity number	145	cm ³ /g	ISO 307, 1157, 1628

Diagrams



Stanyl® TW275F6

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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