

TECHNICAL DATA SHEET

# Stanyl® TW241F5

Envalior  
PA46-GF25

**Processing**

Injection molding

Lubricants, Release agent

**Special Characteristics**

Heat stabilized or stable to heat

**Additives**

## Product Text

**Product Information**

Heat Stabilized, 25% Glass Reinforced, Lubricated

ISO 1043 PA46-GF25

Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	9000	MPa	ISO 527
Stress at break	190	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy notched impact strength, +23°C	9.5	kJ/m <sup>2</sup>	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	280	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50	E-6/K	ISO 11359-1/-2
Other Properties	Value	Unit	Standard
Water absorption	10.1	%	Sim. to ISO 62
Humidity absorption	2.8	%	Sim. to ISO 62

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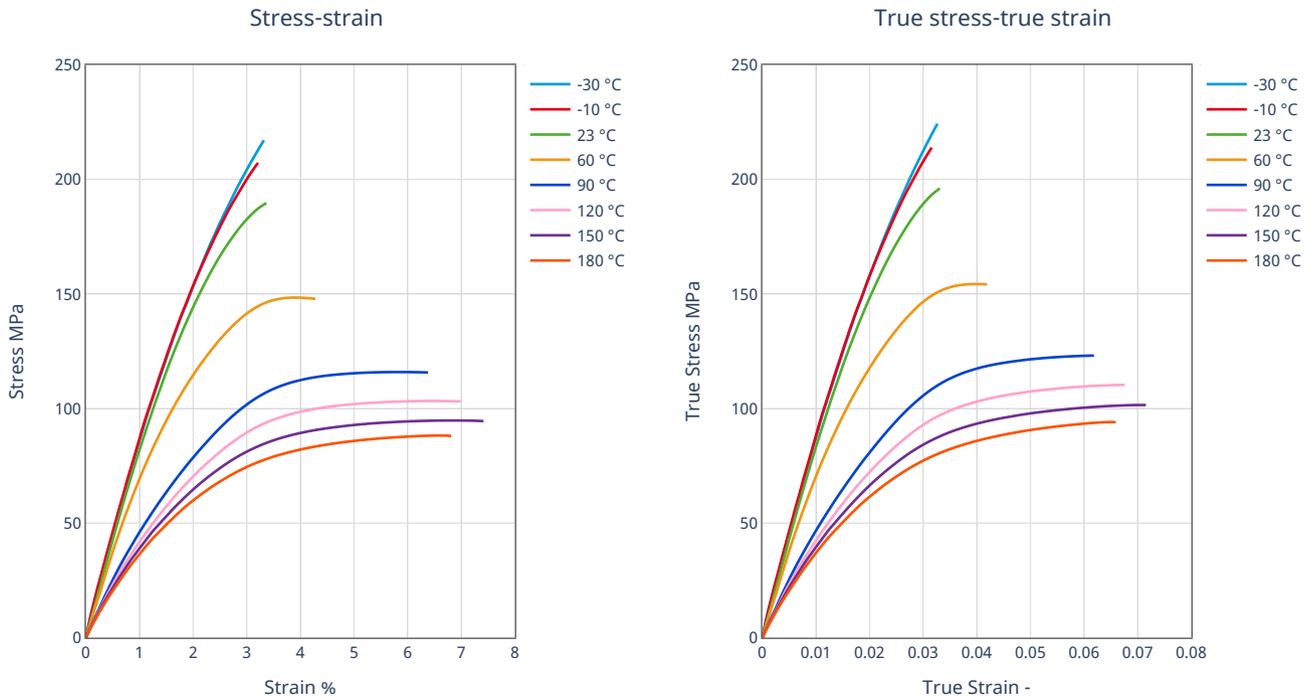
Envalior

Other Properties	Value	Unit	Standard
Density	1350	kg/m <sup>3</sup>	ISO 1183

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

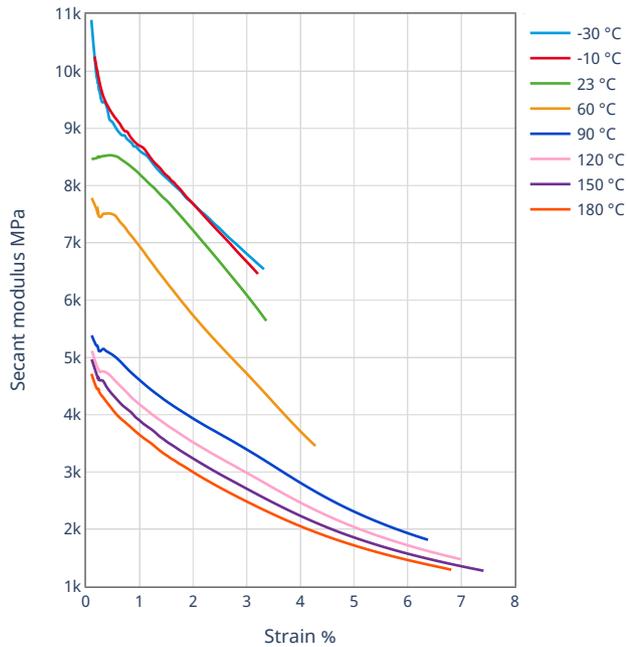
## Diagrams



# Stanyl® TW241F5

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Secant modulus-strain



## Processing 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