

TECHNICAL DATA SHEET

Stanyl® TW271F8

Envalior
(PA46+PTFE)-GF40

Processing

Injection molding

Delivery Form

Pellets

Special Characteristics

Platable, Heat stabilized or stable to heat

Features

Tribologic grade

Product Text

Product Information

40% Glass Reinforced, Heat Stabilized, Wear and Friction Modified

ISO 1043 (PA46+PTFE)-GF40

Mechanical Properties	Value	Unit	Standard
Tensile modulus	13000	MPa	ISO 527
Stress at break	210	MPa	ISO 527
Strain at break	3	%	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	290	°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	285	°C	ISO 75-1/-2
Vicat softening temperature, B	285	°C	ISO 306
Other Properties	Value	Unit	Standard
Density	1631	kg/m ³	ISO 1183
Material Specific Properties	Value	Unit	Standard
Viscosity number	145	cm ³ /g	ISO 307, 1157, 1628

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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