

**Stanyl® TW271F8**

(PA46+PTFE)-GF40

DSM Engineering Plastics

**Product Texts**

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

ISO 1043 (PA46+PTFE)-GF40

[Stanyl website](#)**Mechanical properties**

dry / cond

Unit

Test Standard

**ISO Data**

Tensile Modulus	13000 / -	MPa	ISO 527-1/-2
Stress at break	210 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	14 / -	kJ/m <sup>2</sup>	ISO 179/1eA

**Thermal properties**

dry / cond

Unit

Test Standard

**ISO Data**

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, 50°C/h 50N	285 / *	°C	ISO 306

**Other properties**

dry / cond

Unit

Test Standard

**ISO Data**

Density	1630 / -	kg/m <sup>3</sup>	ISO 1183
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**Material specific properties**

dry / cond

Unit

Test Standard

**ISO Data**

Viscosity number	145 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628
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**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Platable, Heat stabilized or stable to heat

**Delivery form**

Pellets

**Other text information****Injection Molding**[Injection Molding Recommendations](#)