


**Stanyl® TW241B3**

PA46-CF15

DSM Engineering Plastics

**Product Texts**

15% Carbon Reinforced, Heat Stabilized, Lubricated

ISO 1043 PA46-CF15

[Stanyl website](#)

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	13000 / -	MPa	ISO 527-1/-2
Stress at break	185 / 110	MPa	ISO 527-1/-2
Strain at break	2 / 4	%	ISO 527-1/-2
Charpy impact strength (+23°C)	45 / 70	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	40 / 40	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5 / 4.5	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
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)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50 / *	E-6/K	ISO 11359-1/-2

Other properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Water absorption	11.5 / *	%	Sim. to ISO 62
Humidity absorption	3.15 / *	%	Sim. to ISO 62
Density	1220 / -	kg/m <sup>3</sup>	ISO 1183

**Characteristics**
**Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Additives**

Lubricants

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