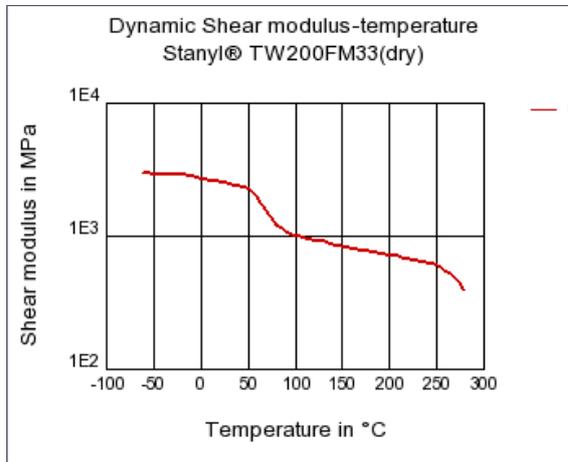




Stanyl® TW200FM33			
PA46-(GF+MD)30		DSM Engineering Plastics	
Product Texts			
30% Glass/Mineral Reinforced, Heat Stabilized, Low Warpage			
ISO 1043 PA46-(GF+MD)30			
Mechanical properties			
	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	7800 / 3200	MPa	ISO 527-1/-2
Stress at break	140 / 70	MPa	ISO 527-1/-2
Strain at break	3 / 6	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	4 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond	Unit	Test Standard
ISO Data			
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)	275 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	290 / *	°C	ISO 306
Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Electrical properties			
	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E12 / 1E7	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093
Comparative tracking index	300 / -	-	IEC 60112
Other properties			
	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1420 / -	kg/m ³	ISO 1183
Material specific properties			
	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Diagrams

Dynamic Shear modulus-temperature



Characteristics

Processing

Injection Molding

Special Characteristics

Platable, Heat stabilized or stable to heat

Delivery form

Pellets

Other text information

Injection Molding

[Injection Molding Recommendations](#)