

Stanyl® TW200F6

PA46-GF30

30% Glass Reinforced, Heat Stabilized

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Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	0.5/*	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.3/*	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	10000/6000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	5500	MPa	ISO 527-1/-2
Tensile modulus (160°C)	5000	MPa	ISO 527-1/-2
Tensile modulus (180°C)	4400	MPa	ISO 527-1/-2
Tensile modulus (200°C)	4000	MPa	ISO 527-1/-2
Stress at break	210/115	MPa	ISO 527-1/-2
Stress at break (120°C)	110	MPa	ISO 527-1/-2
Stress at break (160°C)	100	MPa	ISO 527-1/-2
Stress at break (180°C)	95	MPa	ISO 527-1/-2
Stress at break (200°C)	90	MPa	ISO 527-1/-2
Strain at break	4/7	%	ISO 527-1/-2
Strain at break (120°C)	7.5	%	ISO 527-1/-2
Strain at break (160°C)	7.5	%	ISO 527-1/-2
Strain at break (180°C)	7.5	%	ISO 527-1/-2
Strain at break (200°C)	7.5	%	ISO 527-1/-2
Flexural modulus	9000/5500	MPa	ISO 178
Flexural modulus (120°C)	5500	MPa	ISO 178

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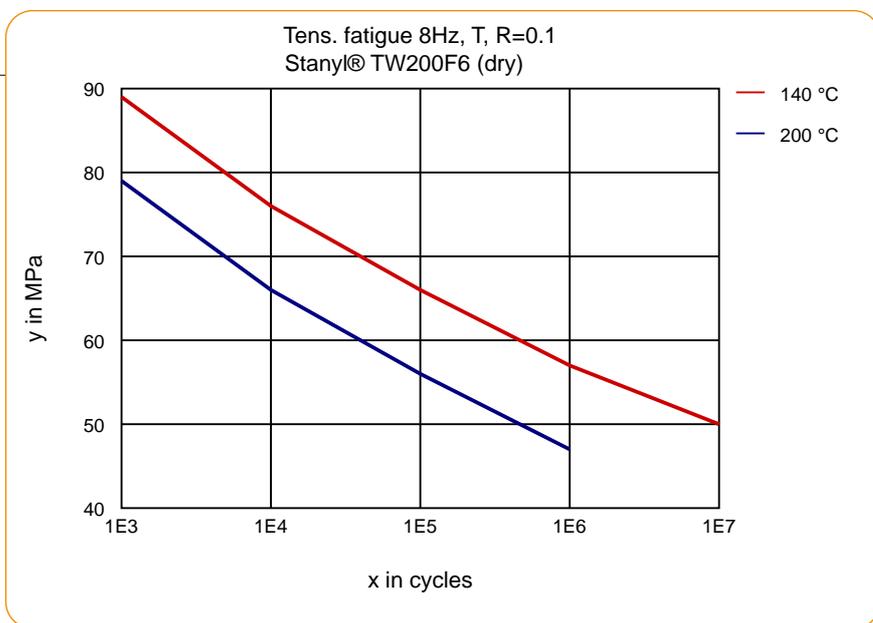


Properties	Typical Data	Unit	Test Method
Flexural modulus (160°C)	5000	MPa	ISO 178
Charpy impact strength (+23°C)	80/100	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65/75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12/21	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11/11	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	12/21	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	11/11	kJ/m ²	ISO 180/1A
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	295/*	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	290/*	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290/*	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.25/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6/*	E-4/°C	ISO 11359-1/-2
Burning Beh. at 1.5 mm nom. thickn.	HB/*	class	IEC 60695-11-10
Thickness tested	1.5/*	mm	IEC 60695-11-10
UL recognition	Yes/*	-	-
Burning Beh. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.75/*	mm	IEC 60695-11-10
UL recognition	Yes/*	-	-
Relative Temperature Index - electrical	140	°C	UL746B
RTI electrical (Thickness (1) tested)	0.9	mm	UL746B
Thermal Index 5000 hrs	177	°C	IEC 60216/ISO 527-1/-2
Electrical properties			
	dry / cond		
Volume resistivity	1E12/1E7	Ohm*m	IEC 60093
Electric strength	30/20	kV/mm	IEC 60243-1
Comparative tracking index	300/-	-	IEC 60112
Relative permittivity (100Hz)	4.3/16	-	IEC 60250

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Properties	Typical Data	Unit	Test Method
Relative permittivity (1 MHz)	4/4.7	-	IEC 60250
Other properties			
	dry / cond		
Humidity absorption	2.6/*	%	Sim. to ISO 62
Density	1410/-	kg/m ³	ISO 1183

Tens. fatigue 8Hz, T, R=0.1, dry



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