

Stanyl[®] TS200F10

PA46–GF50

50% Glass Reinforced

Print Date: 2024–03–27

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
RHEOLOGICAL PROPERTIES			
	<i>DRY / COND</i>		
Molding shrinkage [parallel]	0.4 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	0.9 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	<i>DRY / COND</i>		
Tensile modulus	16000 / 10000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	8500 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	7200	MPa	ISO 527–1/–2
Tensile modulus (180°C)	6600	MPa	ISO 527–1/–2
Tensile modulus (200°C)	6000	MPa	ISO 527–1/–2
Stress at break	250 / 150	MPa	ISO 527–1/–2
Stress at break (120°C)	140 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	120	MPa	ISO 527–1/–2
Stress at break (180°C)	110	MPa	ISO 527–1/–2
Stress at break (200°C)	100	MPa	ISO 527–1/–2
Strain at break	2.7 / 5	%	ISO 527–1/–2
Strain at break (120°C)	5 / –	%	ISO 527–1/–2
Strain at break (160°C)	5.5	%	ISO 527–1/–2
Strain at break (180°C)	5.5	%	ISO 527–1/–2
Strain at break (200°C)	6	%	ISO 527–1/–2
Flexural modulus	15000 / 9000	MPa	ISO 178
Flexural modulus (120°C)	7300	MPa	ISO 178
Flexural modulus (160°C)	6500	MPa	ISO 178
Flexural strength	380 / 250	MPa	ISO 178

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Flexural strength (120°C)	180	MPa	ISO 178
Flexural strength (160°C)	150	MPa	ISO 178
Charpy impact strength (+23°C)	100 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	90 / 100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / 24	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	14 / 14	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	16 / 24	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	14 / 14	kJ/m ²	ISO 180/1A
<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
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)	0.4 / *	E-4/°C	ISO 11359-1/-2
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Volume resistivity	1E12 / 1E8	Ohm*m	IEC 62631-3-1
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	300 / -	V	IEC 60112
Relative permittivity (100Hz)	4.3 / 16	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.7	-	IEC 62631-2-1
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	1.85 / *	%	Sim. to ISO 62
Density	1620 / -	kg/m ³	ISO 1183

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