

Stanyl[®] TS200F8

PA46–GF40

40% Glass Reinforced, for E&E applications

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.5 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	13000 / 8000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	6900 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	6100	MPa	ISO 527–1/–2
Tensile modulus (180°C)	5600	MPa	ISO 527–1/–2
Tensile modulus (200°C)	5200	MPa	ISO 527–1/–2
Stress at break	235 / 140	MPa	ISO 527–1/–2
Stress at break (120°C)	130 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	115	MPa	ISO 527–1/–2
Stress at break (180°C)	105	MPa	ISO 527–1/–2
Stress at break (200°C)	100	MPa	ISO 527–1/–2
Strain at break	3.3 / 6	%	ISO 527–1/–2
Strain at break (120°C)	6 / –	%	ISO 527–1/–2
Strain at break (160°C)	7	%	ISO 527–1/–2
Strain at break (180°C)	7	%	ISO 527–1/–2
Strain at break (200°C)	8	%	ISO 527–1/–2
Flexural modulus	11800 / 7000	MPa	ISO 178
Flexural modulus (120°C)	5800	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 modulus (160°C)	5200	MPa	ISO 178
Flexural strength	325 / 220	MPa	ISO 178
Flexural strength (120°C)	170	MPa	ISO 178
Flexural strength (160°C)	140	MPa	ISO 178
Charpy impact strength (+23°C)	95 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / 21	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	14 / 21	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	12 / 12	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)	0.5 / *	E-4/°C	ISO 11359-1/-2
<i>ELECTRICAL PROPERTIES</i>		<i>DRY / COND</i>	
Volume resistivity	>1E13 / 1E10	Ohm*m	IEC 62631-3-1
Electric strength	35 / 25	kV/mm	IEC 60243-1
Comparative tracking index	400 / -	V	IEC 60112
Relative permittivity (100Hz)	4.4 / 12	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.6	-	IEC 62631-2-1
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1510 / -	kg/m ³	ISO 1183

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