

# Stanyl<sup>®</sup> TE250F8

## PA46–GF40 FR(17)

40% Glass Reinforced, Heat Stabilized, Flame Retardant

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage [parallel]	0.3 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	0.9 / *	%	Sim. to ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	16000 / 10500	MPa	ISO 527–1/–2
Tensile modulus (120°C)	8500 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	6200	MPa	ISO 527–1/–2
Stress at break	190 / 120	MPa	ISO 527–1/–2
Stress at break (120°C)	100 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	80	MPa	ISO 527–1/–2
Strain at break	1.9 / 2.7	%	ISO 527–1/–2
Strain at break (120°C)	3.5 / –	%	ISO 527–1/–2
Strain at break (160°C)	5.5	%	ISO 527–1/–2
Flexural modulus	14000 / 10000	MPa	ISO 178
Flexural modulus (120°C)	8500	MPa	ISO 178
Flexural modulus (160°C)	5500	MPa	ISO 178
Flexural strength	300 / 250	MPa	ISO 178
Flexural strength (120°C)	230	MPa	ISO 178
Flexural strength (160°C)	200	MPa	ISO 178
Charpy impact strength (+23°C)	50 / 50	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)	13 / 13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	13 / 13	kJ/m <sup>2</sup>	ISO 179/1eA

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Izod notched impact strength (+23°C)	14 / 14	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-40°C)	14 / 14	kJ/m <sup>2</sup>	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)	0.5 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Relative Temperature Index – electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.35	mm	UL746B
Thermal Index 5000 hrs	163	°C	IEC 60216/ISO 527-1/-2

ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	1E13 / 1E8	Ohm*m	IEC 62631-3-1
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	325 / -	V	IEC 60112
Relative permittivity (100Hz)	4.3 / 12	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.5	-	IEC 62631-2-1
Relative permittivity (1GHz)	3.6 / 3.8	-	IEC 61189-2-721

OTHER PROPERTIES	DRY / COND
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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1760 / –	kg/m <sup>3</sup>	ISO 1183

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