

# Stanyl<sup>®</sup> TE200F6-FC

## PA46-GF30

30% Glass Reinforced, Heat Stabilized, Food Contact Quality

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage [parallel]	0.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.3 / *	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	10000 / 6000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	5300 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	4750	MPa	ISO 527-1/-2
Tensile modulus (180°C)	4550	MPa	ISO 527-1/-2
Tensile modulus (200°C)	4300	MPa	ISO 527-1/-2
Stress at break	210 / 115	MPa	ISO 527-1/-2
Stress at break (120°C)	115 / -	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	3.7 / 6	%	ISO 527-1/-2
Strain at break (120°C)	7.5 / -	%	ISO 527-1/-2
Strain at break (160°C)	8	%	ISO 527-1/-2
Strain at break (180°C)	8	%	ISO 527-1/-2
Strain at break (200°C)	8	%	ISO 527-1/-2
Flexural modulus	9500 / 5500	MPa	ISO 178
Flexural modulus (120°C)	5100	MPa	ISO 178

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Flexural modulus (160°C)	4900	MPa	ISO 178
Flexural strength	300 / 180	MPa	ISO 178
Flexural strength (120°C)	160	MPa	ISO 178
Flexural strength (160°C)	130	MPa	ISO 178
Charpy impact strength (+23°C)	80 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	65 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 21	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	11 / 11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	12 / 21	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-40°C)	11 / 11	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)	0.6 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. 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 Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Thermal Index 5000 hrs	159	°C	IEC 60216/ISO 527-1/-2

## ELECTRICAL PROPERTIES

### DRY / COND

Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Electric strength	35 / 25	kV/mm	IEC 60243-1

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Comparative tracking index	500 / –	V	IEC 60112
Relative permittivity (100Hz)	4.4 / 12	–	IEC 62631–2–1
Relative permittivity (1 MHz)	4 / 4.6	–	IEC 62631–2–1
Relative permittivity (1GHz)	3.6 / –	–	IEC 61189–2–721
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m <sup>3</sup>	ISO 1183

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