

Stanyl® TE250F3

PA46–GF15 FR(17)

15% Glass Reinforced, Heat Stabilized, Flame Retardant

Stanyl® TE250F3 is an electro–friendly & flame–retarded high heat polyamide that offers excellent creep resistance, strength, ductility and fatigue resistance especially at high temperatures in combination with cycle–time advantages and excellent flow.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.5 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.2 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8000 / –	MPa	ISO 527–1/–2
Stress at break	135 / –	MPa	ISO 527–1/–2
Strain at break	2.9 / –	%	ISO 527–1/–2
Flexural modulus	7500 / –	MPa	ISO 178
Flexural strength	225 / –	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 50	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	40 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6 / 6	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / 10	kJ/m ²	ISO 180/1A
Izod notched impact strength (–40°C)	6 / 6	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

Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (parallel)	0.4 / *	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.	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)	0.9	mm	UL746B
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	175 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1570 / –	kg/m ³	ISO 1183