

Stanyl® TE250F3

PA46—GF15 FR(17)

15% Glass Fiber Reinforced, Flame Retardant

Print Date: 2025-10-23

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/m²	ISO 179/1eU
Charpy impact strength (–30°C)	40 / 40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	6 / 6	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / 10	kJ/m²	ISO 180/1A
Izod notched impact strength (–40°C)	6 / 6	kJ/m²	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)	0.4	E-4/°C	ASTM D696

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Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	0.6	E-4/°C	ASTM D696
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
ELECTRICAL PROPERTIES		DRY / COND	
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	175 / —	V	IEC 60112
OTHER PROPERTIES		DRY / COND	
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1570 / —	kg/m³	ISO 1183

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