

Stanyl[®] TW241F3

PA46-GF15

15% Glass Reinforced, Heat Stabilized, Lubricated

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Stanyl® TW241F3 is a high heat polyamide that offers excellent creep resistance, strength, stiffness and fatique resistance especially at high temperatures, in combination with cycle-time advantages and excellent flow.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	6100 / 2800	MPa	ISO 527-1/-2
Tensile modulus (120°C)	3000 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	2650	MPa	ISO 527-1/-2
Tensile modulus (180°C)	2500	MPa	ISO 527-1/-2
Tensile modulus (200°C)	2350	MPa	ISO 527-1/-2
Stress at break	140 / 85	MPa	ISO 527-1/-2
Stress at break (120°C)	82 / -	MPa	ISO 527-1/-2
Stress at break (160°C)	74	MPa	ISO 527-1/-2
Stress at break (180°C)	70	MPa	ISO 527-1/-2
Stress at break (200°C)	66	MPa	ISO 527-1/-2
Strain at break	3.5 / 12	%	ISO 527-1/-2
Strain at break (120°C)	13 / -	%	ISO 527-1/-2
Strain at break (160°C)	12	%	ISO 527-1/-2
Strain at break (180°C)	12	%	ISO 527-1/-2
Strain at break (200°C)	12	%	ISO 527-1/-2
Flexural modulus	5800 / 2800	MPa	ISO 178
Flexural modulus (120°C)	2700	MPa	ISO 178
Flexural modulus (160°C)	2600	MPa	ISO 178
Flexural strength	235 / 125	MPa	ISO 178
Flexural strength (120°C)	80	MPa	ISO 178
Flexural strength (160°C)	75	MPa	ISO 178

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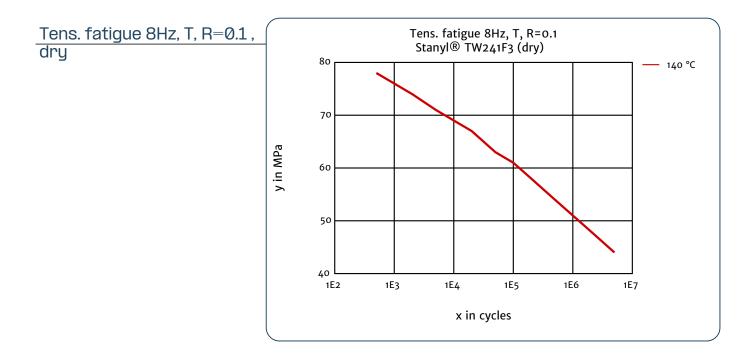
PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Charpy impact strength (+23°C)	50 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	45 / 50	kJ∕m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 13	kJ∕m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6 / 6	kJ∕m²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / 13	kJ∕m²	ISO 180/1A
Izod notched impact strength $(-40^{\circ}C)$	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)	275 / *	°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)	0.5 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
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 / *	_	_
Relative Temperature Index – electrical	65	°C	UL746B
$\textbf{RTI electrical} \ (\textbf{Thickness} \ (1) \ \textbf{tested})$	0.75	mm	UL746B
OTHER PROPERTIES	DRY / COND		
Humidity absorption	3.15 / *	%	Sim. to ISO 62
Density	1290 / -	kg∕m³	ISO 1183

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