

Stanyl® TW341–N

PA46

Heat Stabilized, Lubricated

Print Date: 2025–10–04

Stanyl® TW341–N is a non–reinforced high heat polyamide that offers excellent wear & friction properties in combination with outstanding creep resistance, strength, stiffness 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]	2 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3300 / 1000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	800 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	650	MPa	ISO 527–1/–2
Tensile modulus (180°C)	600	MPa	ISO 527–1/–2
Tensile modulus (200°C)	500	MPa	ISO 527–1/–2
Yield stress	100 / 55	MPa	ISO 527–1/–2
Yield stress (120°C)	50	MPa	ISO 527–1/–2
Yield stress (160°C)	40	MPa	ISO 527–1/–2
Yield stress (180°C)	35	MPa	ISO 527–1/–2
Yield stress (200°C)	30	MPa	ISO 527–1/–2
Nominal strain at break	40 / >50	%	ISO 527–1/–2
Nominal strain at break (120°C)	>50	%	ISO 527–1/–2
Nominal strain at break (160°C)	>50	%	ISO 527–1/–2
Nominal strain at break (180°C)	>50	%	ISO 527–1/–2
Nominal strain at break (200°C)	>50	%	ISO 527–1/–2
Flexural modulus	3000 / 900	MPa	ISO 178
Flexural modulus (120°C)	800	MPa	ISO 178

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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
Flexural modulus (160°C)	600	MPa	ISO 178
Flexural strength	150 / 50	MPa	ISO 178
Flexural strength (120°C)	50	MPa	ISO 178
Flexural strength (160°C)	40	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	4 / 4	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 35	kJ/m²	ISO 180/1A
Izod notched impact strength (–40°C)	4 / 4	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)	190 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	280 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.75 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.8 / *	E–4/°C	ISO 11359–1/–2
Thermal Index 5000 hrs	152	°C	IEC 60216/ISO 527–1/–2

ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	1E13 / 1E7	Ohm*m	IEC 62631–3–1
Electric strength	25 / 15	kV/mm	IEC 60243–1
Comparative tracking index	400 / –	V	IEC 60112
Relative permittivity (100Hz)	3.9 / 22	–	IEC 62631–2–1
Relative permittivity (1 MHz)	3.6 / 4.5	–	IEC 62631–2–1

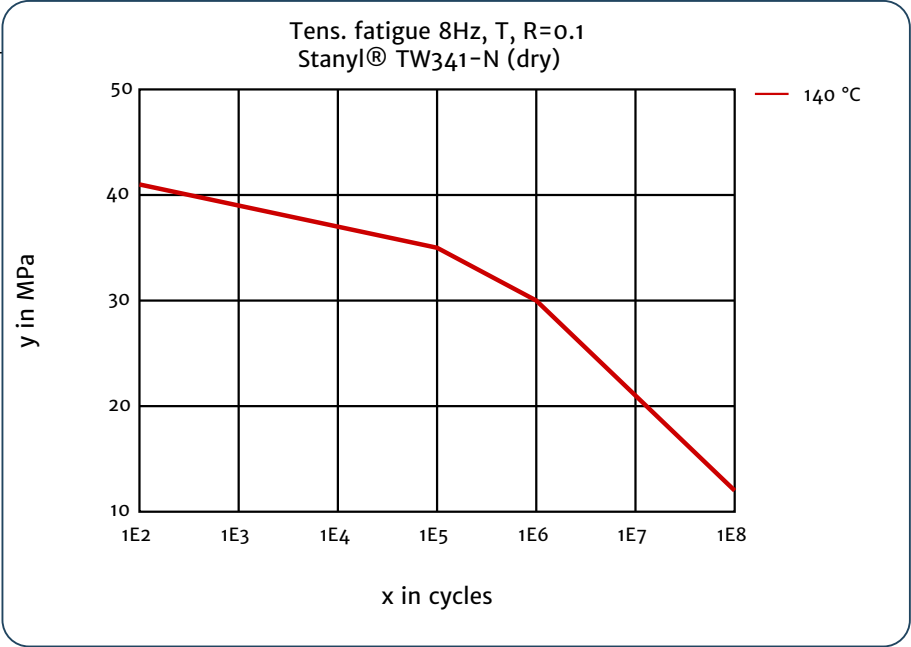
OTHER PROPERTIES	DRY / COND		
Humidity absorption	3.7 / *	%	Sim. to ISO 62
Density	1180 / –	kg/m³	ISO 1183

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Tens. fatigue 8Hz, T, R=0.1 ,
dry



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