

## Stanyl® TW200B6

PA46-CF30

30% Carbon Reinforced, Heat Stabilized, Lubricated

Print Date: 2024-10-12

Stanyl® TW200B6 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. TW200B6 has an excellent track-record in gear applications.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	23500 / 13500	MPa	ISO 527-1/-2
Tensile modulus (120°C)	11000 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	10000	MPa	ISO 527-1/-2
Tensile modulus (180°C)	9500	MPa	ISO 527-1/-2
Tensile modulus (200°C)	8700	MPa	ISO 527-1/-2
Stress at break	250 / 165	MPa	ISO 527-1/-2
Stress at break (120°C)	135 / –	MPa	ISO 527-1/-2
Stress at break (160°C)	115	MPa	ISO 527-1/-2
Stress at break (180°C)	105	MPa	ISO 527-1/-2
Stress at break (200°C)	90	MPa	ISO 527-1/-2
Strain at break	1.7 / 3	%	ISO 527-1/-2
Strain at break (120°C)	3/-	%	ISO 527-1/-2
Strain at break (160°C)	3	%	ISO 527-1/-2
Strain at break (180°C)	3	%	ISO 527-1/-2
Strain at break (200°C)	3	%	ISO 527-1/-2
Flexural modulus	20000 / 11000	MPa	ISO 178

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or

warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

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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## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Flexural modulus (120°C)	10500	MPa	ISO 178
Flexural modulus (160°C)	10000	MPa	ISO 178
Flexural strength	360 / 220	MPa	ISO 178
Flexural strength (120°C)	195	MPa	ISO 178
Flexural strength (160°C)	160	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 75	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	50 / 50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / 14	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6.5 / 6.5	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	8 / 14	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	6.5 / 6.5	kJ/m²	ISO 180/1A
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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
Coeff. of linear therm. expansion (parallel)	0.08 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.34 / *	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	10000 / -	Ohm*m	IEC 62631-3-1
OTHER PROPERTIES	DRY / COND		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1290 / -	kg/m³	ISO 1183

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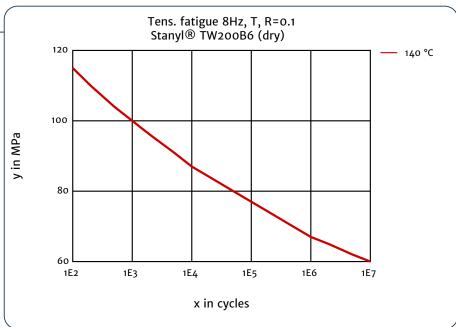
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