

Stanyl® TW241F5

PA46–GF25

Heat Stabilized, 25% Glass Reinforced, Lubricated

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.5 / *	%	ISO 294–4
Molding shrinkage (normal)	1.3 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	9000 / –	MPa	ISO 527–1/–2
Tensile modulus (120°C)	4700 / –	MPa	ISO 527–1/–2
Tensile modulus (180°C)	4300	MPa	ISO 527–1/–2
Stress at break	190 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	105 / –	MPa	ISO 527–1/–2
Stress at break (180°C)	88	MPa	ISO 527–1/–2
Strain at break	3.3 / –	%	ISO 527–1/–2
Strain at break (120°C)	7 / –	%	ISO 527–1/–2
Strain at break (180°C)	7	%	ISO 527–1/–2
Flexural modulus	8400 / –	MPa	ISO 178
Flexural strength	280 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	9.5 / –	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	280 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5 / *	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	DRY / COND		
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1350 / –	kg/m³	ISO 1183

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