Property Data (Provisional)

Envalior
Imagine the Future

Stanyl® TW261F5

PA46–GF25

25% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026–04–09

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	8300 / –	MPa	ISO 527–1/–2
Tensile modulus (120°C)	4500 / –	MPa	ISO 527–1/–2
Tensile modulus (180°C)	3900	MPa	ISO 527–1/–2
Stress at break	175 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	95 / –	MPa	ISO 527–1/–2
Stress at break (180°C)	75	MPa	ISO 527–1/–2
Strain at break	3.3 / –	%	ISO 527–1/–2
Strain at break (120°C)	6 / –	%	ISO 527–1/–2
Strain at break (180°C)	6	%	ISO 527–1/–2
Flexural modulus	8000 / –	MPa	ISO 178
Flexural strength	250 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	11 / –	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)	285 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.74 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (parallel)	0.25	E–4/°C	ASTM D696

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Coeff. of linear therm. expansion (normal)	0.5	E–4/°C	ASTM D696
OTHER PROPERTIES	***DRY / COND***		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1340 / –	kg/m³	ISO 1183