Property Data

Envalior
Imagine the Future

Stanyl® TC168

PA*–GF20 FR(17)

Thermal conductive material, Flame Retardant, Heat Stabilized, 20% Glass Fiber Reinforced

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294–4
Molding shrinkage (normal)	0.6 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	14000 / –	MPa	ISO 527–1/–2
Stress at break	115 / –	MPa	ISO 527–1/–2
Strain at break	1.6 / –	%	ISO 527–1/–2
Charpy impact strength (+23°C)	24 / –	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	24 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / –	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	7.5 / –	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	290 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	214 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.21	E–4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.25	E–4/°C	ASTM D696
Thermal conductivity in plane	2.1	W/(m K)	ASTM E1461
Thermal conductivity through plane	0.9	W/(m K)	ASTM E1461
Burning Behav. at 3.0 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
UL recognition	Yes / *	–	–

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ELECTRICAL PROPERTIES	**DRY / COND**		
Comparative tracking index	300 / –	V	IEC 60112
OTHER PROPERTIES	**DRY / COND**		
Density	1870 / –	kg/m³	ISO 1183