

# Stanyl<sup>®</sup> 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
<b>RHEOLOGICAL PROPERTIES</b>		<b>DRY / COND</b>	
Molding shrinkage (parallel)	0.25 / *	%	ISO 294-4
Molding shrinkage (normal)	0.6 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>		<b>DRY / COND</b>	
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/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	24 / —	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / —	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	7.5 / —	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>		<b>DRY / COND</b>	
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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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
Comparative tracking index	300 / –	V	IEC 60112
OTHER PROPERTIES			
Density	1870 / –	kg/m³	ISO 1183

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