

Stanyl[®] TC168

PA*—GF20 FR(17)

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

Print Date: 2024-03-27

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/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	24 / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / –	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7.5 / –	kJ/m ²	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	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.25 / *	E-4/°C	ISO 11359-1/-2
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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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>ELECTRICAL PROPERTIES</i>			
Comparative tracking index	300 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>			
Density	1870 / –	kg/m ³	ISO 1183

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