Stanyl®

Stanyl® TC168 (NC239B)

PA46-GF20 FR(17)

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

Print Date: 2018-12-13

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	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 thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties	dry / cond		

Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Comparative tracking index	300 / -	V	IEC 60112
Other properties	dry / cond		
Density	1870 / -	kg/m³	ISO 1183