Stanyl®

Stanyl® TC155

PA46 FR(17)

Thermal conductive material, Flame Retardant, Heat Stabilized

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage [parallel]	0.3 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	0.3 / *	%	Sim. to ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	11000 / -	MPa	ISO 527-1/-2
Stress at break	55 / -	MPa	ISO 527-1/-2
Strain at break	0.6 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	10 / -	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	10 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2 / -	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	1.6 / -	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Coeff. of linear therm. expansion (parallel)	0.25 / *	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	5	W/(m K)	ASTM E1461
Thermal conductivity through plane	1	W/(m K)	ASTM E1461
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-

Property Data

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Properties	Typical Data	Unit	Test Method
Electrical properties	dry / cond		
Comparative tracking index	575 / -	V	IEC 60112
Relative permittivity (10GHz)	3.89 / -	-	IEC 60250
Other properties	dry / cond		
Density	1620 / -	kg/m³	ISO 1183