

Stanyl® TC551

PA46 FR(17)

Thermal conductive material, Flame Retardant

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	7000 / -	MPa	ISO 527-1/-2
Stress at break	45 / -	MPa	ISO 527-1/-2
Strain at break	1 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	2.2 / -	kJ/m ²	ISO 179/1eU
Thermal properties			
	dry / cond		
Thermal conductivity in plane	14	W/(m K)	ASTM E1461
Thermal conductivity through plane	2.1	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 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Relative Temperature Index – electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Electrical properties			
	dry / cond		
Volume resistivity	10000 / -	Ohm*m	IEC 62631-3-1



Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Humidity absorption	1.1 / *	%	Sim. to ISO 62
Density	1520 / -	kg/m ³	ISO 1183

