

Stanyl® TC551

PA46 FR(17)

Thermal conductive material, Flame Retardant

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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	9100/-	MPa	ISO 527-1/-2
Stress at break	50/-	MPa	ISO 527-1/-2
Strain at break	0.6/-	%	ISO 527-1/-2
Charpy impact strength (+23°C)	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 Beh. 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 Beh. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.75/*	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 60093

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Humidity absorption	1.1/*	%	Sim. to ISO 62
Density	1470/-	kg/m ³	ISO 1183

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