

Stanyl® TS250F4D

PA46-GF20 FR(17)

20% Glass Reinforced, Flame Retardant, Heat Stabilized, Improved resistance to blistering during reflow - soldering process

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	0.8 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.3 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	9200 / 6000	MPa	ISO 527-1/-2
Stress at break	150 / 100	MPa	ISO 527-1/-2
Strain at break	2.5 / 4	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	10 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / 8	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	290 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
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	130	°C	UL746B



Property Data

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Properties	Typical Data	Unit	Test Method
RTI electrical (Thickness (1) tested)	0.67	mm	UL746B
Electrical properties			
	dry / cond		
Volume resistivity	>1E13 / 1E8	Ohm*m	IEC 62631-3-1
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	200 / -	V	IEC 60112
Relative permittivity (100Hz)	4.3 / -	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / -	-	IEC 62631-2-1
Other properties			
	dry / cond		
Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1600 / -	kg/m ³	ISO 1183

