Property Data

Envalior
Imagine the Future

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/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	8 / 8	kJ/m²	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

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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/m³	ISO 1183