Stanyl®

Stanyl® TE250F3
PA46-GF15 FR(17)
15% Glass Reinforced, Heat Stabilized, Flame Retardant

Print Date: 2019-06-05

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage [parallel]	0.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.2 / *	%	Sim. to ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	8000 / -	MPa	ISO 527-1/-2
Stress at break	140 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Flexural modulus	7500 / -	MPa	ISO 178
Flexural strength	225 / -	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 50	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6 / 6	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / 10	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	6 / 6	kJ/m²	ISO 180/1A
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

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Properties	Typical Data	Unit	Test Method
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	0.9 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	–	–
Relative Temperature Index - electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.9	mm	UL746B

Electrical properties
dry / cond

Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	175 / –	V	IEC 60112

Other properties
dry / cond

Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1520 / –	kg/m³	ISO 1183

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