

Stanyl® TE250F6

PA46-GF30 FR(17)

30% Glass Reinforced, Heat Stabilized, Flame Retardant

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Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	0.4/*	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.1/*	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	12000/8000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	7500	MPa	ISO 527-1/-2
Tensile modulus (160°C)	6200	MPa	ISO 527-1/-2
Stress at break	180/125	MPa	ISO 527-1/-2
Stress at break (120°C)	105	MPa	ISO 527-1/-2
Stress at break (160°C)	95	MPa	ISO 527-1/-2
Strain at break	2.5/3.5	%	ISO 527-1/-2
Strain at break (120°C)	4	%	ISO 527-1/-2
Strain at break (160°C)	4	%	ISO 527-1/-2
Flexural modulus	11000/7300	MPa	ISO 178
Flexural modulus (120°C)	6500	MPa	ISO 178
Flexural modulus (160°C)	5000	MPa	ISO 178
Charpy impact strength (+23°C)	60/60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	50/50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11/11	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10/10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	11/11	kJ/m ²	ISO 180/1A

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Properties	Typical Data	Unit	Test Method
Izod notched impact strength (-40°C)	11/11	kJ/m ²	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)	0.25/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.55/*	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 thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.35/*	mm	IEC 60695-11-10
UL recognition	Yes/*	-	-
Relative Temperature Index - electrical	140	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Thermal Index 5000 hrs	163	°C	IEC 60216/ISO 527-1/-2
Electrical properties			
	dry / cond		
Volume resistivity	1E13/1E8	Ohm*m	IEC 60093
Electric strength	30/20	kV/mm	IEC 60243-1
Comparative tracking index	225/-	-	IEC 60112
Relative permittivity (100Hz)	4.3/10	-	IEC 60250
Relative permittivity (1 MHz)	4/4.5	-	IEC 60250
Relative permittivity (1GHz)	3.6/3.8	-	IEC 60250
Other properties			
	dry / cond		
Humidity absorption	1.6/*	%	Sim. to ISO 62
Density	1680/-	kg/m ³	ISO 1183

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