



Stanyl

Typical properties

Datasheet TE250F6 - 00001

30% GF reinforced, flame retardant, heat stabilized, grade with good strength and toughness for E/E applications

	Unit	ISO/IEC	DIN	Grade TE250F6
General properties				
Density	g/cm ³	ISO 1183	53479	1,68
Melting temperature	°C	ISO 3146		295
Temperature properties				
✓ HDT-A (1.8 MPa)	°C	ISO 75-1	53481	290
Peak temperature (1min.)	°C	UL 746B		-
Continuous use temperature - 5000 hrs	°C	IEC 60216		163
Coeff. linear thermal expansion	E-4/K	DIN 53752		
- // (23-55°C) 支子 = °C				0,2
- ⊥ (23-55°C)				0,8
Electrical properties				
RTI electrical	°C, mm	UL 746B		140 (0.75)
Insulation class	-	UL 1448		H
✓ Flammability (at thickness)	class(mm)	UL 94		V-0 (0.35)
Comparative tracking index (CTI)	PLC	IEC 60112		2
Electric strength	kV/mm	IEC 60243-1		
- dry (23°C)				30
- con (23°C / 50%RH)				20
Volume resistivity	Ohm.cm	IEC 60093		
- dry (23°C)				1E+15
- con (23°C / 50%RH)				1E+10
Mechanical properties				
✓ Izod impact strength (notched)	kJ/m ²	ISO 180-1A		
- dry (23°C)				10
- con (23°C / 50%RH)				11
Tensile strength	MPa	ISO 527-1	53455	
- dry (23°C)				180
- con (23°C / 50%RH)				125
Tensile Modulus	MPa	ISO 527-1	53457	
- dry (23°C)				12500
- con (23°C / 50%RH)				8000
Strain at break	%	ISO 527-1	53455	
- dry (23°C)				2,5
- con (23°C / 50%RH)				3,5
Dimensional properties				
Moulding shrinkage	%	DSM		
- //				0,4
- ⊥				1,1
Humidity absorption (equi. 23°C/50%RH)	%	ISO 62		1,6

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QMFZ2 Component - Plastics

Tuesday, May 25, 2004

E47960

DSM ENGINEERING PLASTICS B V
POSTBUS 43 6130 AA SITTARD THE NETHERLANDS

Material Designation: **TE250F6(h1)(j)**

Product Description: Polyamide 4/6 (PA4/6), glass reinforced, flame retardant, designated "Stanyl" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.35	V-0	-	-	-	-	-	-	-
	0.75	V-0	0	0	140	110	120	-	-
	1.5	V-0	0	0	140	125	125	-	-
	3.0	V-0	0	0	140	130	130	-	-

CTI: 2**HVTR: 1****D495: 6****IEC Ball Pressure (°C): -****Dielectric Strength (kV/mm): 23****Volume Resistivity (10^xohm-cm): -****Dimensional Stability(%): 0.0****ISO Tensile Strength (MPa): -****ISO Flexural Strength (MPa): -****ISO Heat Deflection (°C): -****ISO Tensile Impact (kJ/m²): -****ISO Izod Impact (kJ/m²): -****ISO Charpy Impact (kJ/m²): -**

(h1) Virgin and regrind, up to 50% by weight inclusive, in thicknesses of 0.75mm and greater, have the same basic material characteristics, except for CTI.

(j) Virgin and regrind, up to 100% by weight inclusive, have the same basic material characteristics with respect to Flammability in the 0.75mm thickness and greater.

Report Date: 1/1/2003

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.