

Stanyl® TE250F8

Polyamide 46

40% GF Reinforced, flame retardant

Properties	Typical Data	Unit	Test Method
Physical Properties			
Density	1740	Kg/cm ³	ISO 1183
Melting Temperature	295	C	DSM
Thermal Conductivity	0.24	W/K·m	DSM
Mold Shrinkage ⁽¹⁾ MD/TD	0.2±0.1 / 0.8±0.3	%	DSM
Humidity Absorption 23C, 50%RH	1.2	%	ISO 1110
Mechanical Properties			
Tensile Strength ⁽²⁾	180	MPa	ISO 527-1A
Tensile Elongation ⁽²⁾	2	%	ISO 527-1A
Tensile Modulus ⁽³⁾	15000	MPa	ISO 527-1A
Charpy Impact Strength ⁽⁴⁾ 23C	10	KJ/m ²	ISO 179-1eA
Charpy Impact Strength ⁽⁴⁾ -40C	10	KJ/m ²	ISO 179-1eA
Flexural Strength ⁽⁵⁾	250	MPa	ISO 178
Flexural Modulus ⁽⁵⁾	13000	MPa	ISO 178
Thermal Properties			
HDT @1.80MPa	>285	C	ISO 75-A
Coeff. Linear Thermal Expansion 20C – 80C MD/TD	2 / 8	1/K x 10 ⁻⁵	DSM
Electrical Properties			
Dielectric Strength	>30	KV/mm	IEC 243
Volume Resistivity	10 ¹⁵	Ω·cm	IEC 93
Surface Resistivity	10 ¹⁶	Ω	IEC 93
Dielectric Constant 23C, MHz	4.0	-	IEC 250
Dissipation Factor 23C, MHz	16	X 10 ⁻³	IEC 250
Flammability	0.75mm V-0	-	UL 94

(1) Measured on plaques (80x80x1mm). Depending on molding conditions.

(2) Test Speed: Reinforced=5mm/min, Non-reinforced=50mm/min

(3) Test Speed: 1mm/min.

(4) Notched, Edgewise

(5) Test Speed: Reinforced=2mm/min, Non-reinforced=10mm/min 2mm/min.