

Stanyl® TS250FK33

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TS250FK33 is a Polyamide 46 (Nylon 46) material filled with 30% glass\mineral. It is available in Asia Pacific, Europe, or North America. Important attributes of Stanyl® TS250FK33 are:

- Flame Rated
- Flame Retardant
- Warp Resistant

General Information			
UL YellowCard	E172082-225883		
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Low Warpage		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.7	%	
Flow	0.80	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	7600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	280	°C	ISO 75-2/A
Melting Temperature	295	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	5.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1

Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.750 mm)	V-0		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	280 to 320	°C	
Middle Temperature	300 to 320	°C	
Front Temperature	300 to 320	°C	
Nozzle Temperature	300 to 320	°C	
Processing (Melt) Temp	305 to 320	°C	
Mold Temperature	80.0 to 120	°C	
Injection Rate	Moderate-Fast		
Back Pressure	2.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		

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Recommended distributors for this material

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