

Stanyl® TW200FM33

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW200FM33 is a Polyamide 46 (Nylon 46) material filled with 30% glass\mineral. It is available in Europe for injection molding. Important attributes of Stanyl® TW200FM33 are:
Flame Rated
Heat Stabilizer
Warp Resistant

General Information				
Filler / Reinforcement		Glass\Mineral,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		Low Warpage		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7800	3200	MPa	ISO 527-2
Tensile Stress (Break)	140	70.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	4.0	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	275	--	°C	ISO 75-2/A
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	4.0E-5	--	cm/cm/°C	
Transverse	7.0E-5	--	cm/cm/°C	

Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+9	ohms·cm	IEC 60093
Comparative Tracking Index	300	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (1.60 mm)	HB	--		IEC 60695-11-10, -20
Injection	Dry	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			
NOTE				
1.	10°C/min			

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Recommended distributors for this material

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