Stanyl® TE250F9

Polyamide 46

DSM Engineering Plastics

Message:

Stanyl® TE250F9 is a Polyamide 46 (Nylon 46) material filled with 45% glass fiber. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TE250F9 are:
Flame Rated
Flame Retardant
Heat Stabilizer

General Information			
UL YellowCard	E43392-235034	E47960-240066	E172082-460463
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Flame Retardant Heat Stabilizer		
Features	Flame Retardant Heat Stabilized		
Forms	Pellets		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.82	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus				ISO 527-2
--	17000	12000	MPa	
120°C	11000	--	MPa	
160°C	10000	--	MPa	
Tensile Stress				ISO 527-2
Break	200	130	MPa	
Break, 120°C	130	--	MPa	
Break, 160°C	120	--	MPa	
Tensile Strain				ISO 527-2

Break	2.0	3.0	%	
Break, 120°C	3.0	--	%	
Break, 160°C	3.0	--	%	
Flexural Modulus				ISO 178
--	15000	11000	MPa	
120°C	10500	--	MPa	
160°C	9000	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	13	kJ/m²	
23°C	13	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m²	
23°C	65	75	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	13	13	kJ/m²	
23°C	13	15	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	--	°C	ISO 75-2/A
Melting Temperature [1]	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	4.5E-5	--	cm/cm/°C	
Thermal Index - 5000 hrs	163	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+10	ohms·cm	IEC 60093
Electric Strength	30	20	kV/mm	IEC 60243-1
Comparative Tracking Index	250	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
1.50 mm	V-0	--		
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

Recommended distributors for this material

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