

Stanyl® ForTii™ F31

Polyamide 4T
DSM Engineering Plastics

Message:

Stanyl® ForTii™ F31 is a Polyamide 4T (Nylon 4T) material filled with 35% glass\mineral. It is available in Asia Pacific, Europe, or North America.

Important attributes of Stanyl® ForTii™ F31 are:

- Flame Rated
- Flame Retardant
- Halogen Free
- Warp Resistant

General Information	
UL YellowCard	E47960-100625640
Filler / Reinforcement	Glass\Mineral,35% Filler by Weight
Additive	Flame Retardant
Features	Flame Retardant
	Halogen Free
	Low (to None) Phosphorus Content
	Low Warpage

Physical	Dry	Conditioned	Unit	Test Method
Density	1.52	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	12000	MPa	ISO 527-2
Tensile Stress (Break)	105	105	MPa	ISO 527-2
Tensile Strain (Break)	1.3	1.3	%	ISO 527-2
Flexural Modulus	12000	12000	MPa	ISO 178
Flexural Stress	165	160	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	25	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	295	--	°C	ISO 75-2/A
Melting Temperature ¹	325	--	°C	ISO 11357-3

CLTE				ISO 11359-2
Flow	2.5E-5	--	cm/cm/°C	
Transverse	4.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	33	33	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 mm	V-0	--		
1.50 mm	V-0	--		
Injection	Dry	Unit		
Drying Temperature	100			°C
Drying Time	4.0 to 8.0			hr
Rear Temperature	320 to 330			°C
Middle Temperature	325 to 335			°C
Front Temperature	330 to 335			°C
Nozzle Temperature	330 to 335			°C
Processing (Melt) Temp	330 to 340			°C
Mold Temperature	100 to 150			°C
Injection Rate	Moderate-Fast			
Back Pressure	0.500 to 3.00			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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