

Stanyl® ForTii™ F11

Polyamide 4T
DSM Engineering Plastics

Message:

Stanyl® ForTii™ F11 is a Polyamide 4T (Nylon 4T) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America.

Important attributes of Stanyl® ForTii™ F11 are:

- Flame Rated
- Flame Retardant
- Halogen Free

General Information		
UL YellowCard	E47960-100114544	E172082-100846388
Filler / Reinforcement	Glass Fiber,30% Filler by Weight	
Additive	Flame Retardant	
Features	Flame Retardant	
	Halogen Free	
	Low (to None) Phosphorus Content	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	12000	12000	MPa	
120°C	8000	--	MPa	
160°C	5500	--	MPa	
Tensile Stress				ISO 527-2
Break	155	155	MPa	
Break, 120°C	105	--	MPa	
Break, 160°C	75.0	--	MPa	
Tensile Strain				ISO 527-2
Break	2.0	2.0	%	
Break, 120°C	2.7	--	%	
Break, 160°C	3.7	--	%	
Flexural Modulus	11500	11500	MPa	ISO 178
Flexural Stress	245	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	10	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	50	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	305	--	°C	ISO 75-2/A
Melting Temperature ¹	325	--	°C	ISO 11357-3
CLTE				
Flow	3.0E-5	--	cm/cm/°C	ASTM D696
Flow	1.5E-5	--	cm/cm/°C	ISO 11359-2
Transverse	3.5E-5	--	cm/cm/°C	ASTM D696
Transverse	7.0E-5	--	cm/cm/°C	ISO 11359-2
RTI Elec (0.200 mm)	115	--	°C	UL 746
Thermal Index - 5000 hr	163	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	> 1.0E+15	ohms·cm	IEC 60093
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
0.200 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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