

Stanyl® ForTii™ H11

Polyamide 4T
DSM Engineering Plastics

Message:

Stanyl® ForTii™ H11 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™ H11 are:

- Flame Rated
- Flame Retardant
- Halogen Free
- High Flow

General Information	
UL YellowCard	E47960-101041561
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Flame Retardant
Features	Flame Retardant
	Halogen Free
	High Flow
	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	1.1	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	11000	MPa	ISO 527-2
Tensile Stress (Break)	140	135	MPa	ISO 527-2
Tensile Strain (Break)	1.9	1.8	%	ISO 527-2
Flexural Modulus	10500	10500	MPa	ISO 178
Flexural Stress	210	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	40	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				
Flow	3.0E-5	--	cm/cm/°C	ASTM D696
Flow	2.1E-5	--	cm/cm/°C	ISO 11359-2
Transverse	5.0E-5	--	cm/cm/°C	ASTM D696
Transverse	6.5E-5	--	cm/cm/°C	ISO 11359-2
RTI Elec (0.200 mm)	115	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	1.0E+15	ohms·cm	IEC 60093
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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