

ForTii® XS51

Polyamide 4T
DSM Engineering Plastics

Message:

ForTii®XS51 is a Polyamide 4T (Nylon 4T) material, which contains a 40% glass fiber reinforced material. This product is available in the Asia-Pacific region.

ForTii®The main features of XS51 are:

flame retardant/rated flame

Flame Retardant

Halogen-free

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Additive	Flame retardancy			
Features	Phosphorus content, low (to none)			
	Halogen-free			
	Flame retardancy			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.67	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.59	--	%	ISO 294-4
Flow	0.38	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	18500	18500	MPa	ISO 527-2
Tensile Stress (Break)	230	210	MPa	ISO 527-2
Tensile Strain (Break)	2.3	2.0	%	ISO 527-2
Flexural Modulus	17000	17000	MPa	ISO 178
Flexural Stress	350	310	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	75	kJ/m ²	ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/A

Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method

Flammability Classification			IEC 60695-11-10, -20
0.40 mm	V-0	--	IEC 60695-11-10, -20
1.5 mm	V-0	--	IEC 60695-11-10, -20
Injection	Dry	Unit	
Drying Temperature	100		°C
Drying Time	4.0 - 8.0		hr
Rear Temperature	320 - 330		°C
Middle Temperature	325 - 335		°C
Front Temperature	330 - 335		°C
Nozzle Temperature	330 - 335		°C
Processing (Melt) Temp	330 - 340		°C
Mold Temperature	100 - 150		°C
Injection Rate	Moderate-Fast		
Back Pressure	0.500 - 3.00		MPa
Screw Compression Ratio	2.5:1.0		

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