

Stanyl® ForTii™ JTX2

Polyamide 4T
DSM Engineering Plastics

Message:

Stanyl® ForTii™ JTX2 is a Polyamide 4T (Nylon 4T) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary attribute of Stanyl® ForTii™ JTX2: Flame Rated.
Typical application of Stanyl® ForTii™ JTX2: Electrical/Electronic Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Uses		Electrical/Electronic Applications		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.40	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	11000	11000	MPa	
120°C	8000	--	MPa	
160°C	4500	--	MPa	
200°C	4000	--	MPa	
Tensile Stress				ISO 527-2
Break	190	190	MPa	
Break, 120°C	135	--	MPa	
Break, 160°C	90.0	--	MPa	
Break, 200°C	75.0	--	MPa	
Tensile Strain				ISO 527-2
Break	2.2	2.2	%	
Break, 120°C	3.6	--	%	
Break, 160°C	7.2	--	%	
Break, 200°C	8.4	--	%	
Flexural Modulus				ISO 178
--	10500	--	MPa	
160°C	5000	--	MPa	
180°C	4000	--	MPa	
Flexural Stress	315	--	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)	60	60	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
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
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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