

ForTii® LDS51

Polyamide 4T

DSM Engineering Plastics

Message:

ForTii® LDS51 is a Polyamide 4T (Nylon 4T) material, which contains a 30% glass fiber reinforced material. This product is available in North America, Europe or Asia Pacific region. The processing method is injection molding.

ForTii® The main features of LDS51 are:

flame retardant/rated flame

Flame Retardant

Halogen-free

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		Flame retardancy		
Features		Phosphorus content, low (to none)		
		Halogen-free		
		Flame retardancy		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.0	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	11000	MPa	ISO 527-2
Tensile Stress (Break)	120	120	MPa	ISO 527-2
Tensile Strain (Break)	1.6	1.6	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	--	°C	ISO 75-2/A
Melting Temperature ¹	325	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	4.0E-5	--	cm/cm/°C	ISO 11359-2

Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	> 1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.8 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			
NOTE				
1.	10°C/min			

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