

Stanyl® HFX50S

Polyamide

DSM Engineering Plastics

Message:

Stanyl® HFX50S is a polyamide material, which contains a 30% glass fiber reinforced material. This product is available in the Asia-Pacific region.

Stanyl® The main features of HFX50S 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			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.2	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	--	MPa	ISO 527-2
Tensile Stress (Break)	140	--	MPa	ISO 527-2
Tensile Strain (Break)	1.9	--	%	ISO 527-2
Flexural Modulus	11000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	7.0	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	285	--	°C	ISO 75-2/A
Melting Temperature ¹	305	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	30	30	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.30	5.20		IEC 60250

1 MHz	3.90	4.20		IEC 60250
1.00 GHz	3.70	3.90		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.40 mm)	V-0	--		IEC 60695-11-10, -20
Injection	Dry	Unit		
Drying Temperature	100		°C	
Drying Time	4.0 - 8.0		hr	
Rear Temperature	300 - 310		°C	
Middle Temperature	305 - 315		°C	
Front Temperature	310 - 320		°C	
Nozzle Temperature	315 - 325		°C	
Processing (Melt) Temp	320 - 330		°C	
Mold Temperature	100 - 120		°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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