

Stanyl® HFX61S

Polyamide 46

DSM Engineering Plastics

Message:

Stanyl® HFX61S is a polyamide 46 (nylon 46) material, which contains a 35% glass fiber reinforced material. This product is available in the Asia-Pacific region.

Stanyl® The main features of HFX61S are:

flame retardant/rated flame

Flame Retardant

high liquidity

Halogen-free

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight			
Additive	Flame retardancy			
Features	Phosphorus content, low (to none)			
	High liquidity			
	Halogen-free			
	Flame retardancy			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.1	--	%	ISO 294-4
Flow	0.40	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	8000	MPa	ISO 527-2
Tensile Stress (Break)	145	100	MPa	ISO 527-2
Tensile Strain (Break)	2.1	3.1	%	ISO 527-2
Flexural Modulus	10500	8000	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	60	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	295	--	°C	ISO 11357-3
Linear thermal expansion coefficient				

Flow	3.0E-5	--	cm/cm/°C	ASTM D696
Flow	1.7E-5	--	cm/cm/°C	ISO 11359-2
Lateral	4.0E-5	--	cm/cm/°C	ASTM D696
Lateral	7.0E-5	--	cm/cm/°C	ISO 11359-2
RTI Elec (0.180 mm)	120	--	°C	UL 746
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	> 1.0E+15	1.0E+13	ohms·cm	IEC 60093
Relative Permittivity				IEC 60250
100 Hz	4.40	11.0		IEC 60250
1 MHz	4.10	5.00		IEC 60250
1.00 GHz	3.90	4.10		IEC 60250
10.0 GHz	3.80	4.00		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.180 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	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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