

Stanyl® HFX82S

Polyamide 46

DSM Engineering Plastics

Message:

Stanyl® HFX82S is a polyamide 46 (nylon 46) material, which contains a 45% glass fiber reinforced material. This product is available in the Asia-Pacific region.

Stanyl® The main features of HFX82S are:

flame retardant/rated flame

Flame Retardant

Halogen-free

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight			
Additive	Flame retardancy			
Features	Phosphorus content, low (to none)			
	Halogen-free			
	Flame retardancy			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.60	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.90	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	--	MPa	ISO 527-2
Tensile Stress (Break)	180	--	MPa	ISO 527-2
Tensile Strain (Break)	2.2	--	%	ISO 527-2
Flexural Modulus	14000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	282	--	°C	ISO 75-2/B
1.8 MPa, not annealed	275	--	°C	ISO 75-2/A
Melting Temperature ¹	278	--	°C	ISO 11357-3
Electrical	Dry	Conditioned		Test Method
Relative Permittivity (1.00 GHz)	4.20	4.40		IEC 60250
Flammability	Dry	Conditioned		Test Method

Flammability Classification (3.2 mm)	V-0	--	IEC 60695-11-10, -20
Injection	Dry	Unit	
Drying Temperature	80		°C
Drying Time	4.0 - 8.0		hr
Rear Temperature	280 - 320		°C
Middle Temperature	300 - 320		°C
Front Temperature	300 - 320		°C
Nozzle Temperature	300 - 320		°C
Processing (Melt) Temp	305 - 320		°C
Mold Temperature	80 - 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

