

Stanyl® HFX31SW

PA46-GF20 FR(40)

20% Glass Reinforced, High Flow, Halogen free and free of red phosphorous

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Stanyl® HFX31SW is an electro-friendly & halogen-free flame-retarded high heat polyamide that offers an excellent combination of high CTI, flow and weld-line strength. HFX-grades are often used in connectors such as USB type C.

Properties	Typical Data	Unit	Test Method
Mechanical properties			
	dry / cond		
Tensile modulus	8200 / -	MPa	ISO 527-1/-2
Stress at break	110 / -	MPa	ISO 527-1/-2
Strain at break	2.6 / -	%	ISO 527-1/-2
Flexural modulus	8000 / -	MPa	ISO 178
Flexural strength	130 / -	MPa	ISO 178
Charpy notched impact strength (+23°C)	5.5 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	285 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.2 / *	mm	IEC 60695-11-10
Other properties			
	dry / cond		
Density	1470 / -	kg/m ³	ISO 1183

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