

Stanyl® HFX82S

PA46-GF45 FR(40)

45% Glass Reinforced, Halogen free and free of red phosphorous

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Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	15000 / -	MPa	ISO 527-1/-2
Stress at break	180 / -	MPa	ISO 527-1/-2
Strain at break	2.2 / -	%	ISO 527-1/-2
Flexural modulus	14000 / -	MPa	ISO 178
Flexural strength	255 / -	MPa	ISO 178
Charpy impact strength (+23°C)	70 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / -	kJ/m ²	ISO 179/1eA
Thermal properties dry / cond			
Melting temperature (10°C/min)	286 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	276 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	282 / *	°C	ISO 75-1/-2
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	IEC 60695-11-10
Electrical properties dry / cond			
Relative permittivity (1GHz)	4.2 / 4.4	-	IEC 60250
Other properties dry / cond			
Density	1600 / -	kg/m ³	ISO 1183