

Stanyl[®] HFX63S

PA46—GF35 FR(40)

35% Glass Fiber Reinforced, High Flow, Halogen free and free of red phosphorous

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		DRY / COND	
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES		DRY / COND	
Tensile modulus	12300 / 8600	MPa	ISO 527-1/-2
Tensile modulus (120°C)	6600 / —	MPa	ISO 527-1/-2
Tensile modulus (160°C)	5700	MPa	ISO 527-1/-2
Stress at break	150 / 110	MPa	ISO 527-1/-2
Stress at break (120°C)	89 / —	MPa	ISO 527-1/-2
Stress at break (160°C)	70	MPa	ISO 527-1/-2
Strain at break	2.5 / 3.5	%	ISO 527-1/-2
Strain at break (120°C)	4.5 / —	%	ISO 527-1/-2
Strain at break (160°C)	5	%	ISO 527-1/-2
Flexural modulus	10500 / 8000	MPa	ISO 178
Flexural strength	210 / 200	MPa	ISO 178
Charpy impact strength (+23°C)	50 / 60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 10	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES		DRY / COND	
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	—	—

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES			
	DRY / COND		
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 62631-3-1
Electric strength	30 / -	kV/mm	IEC 60243-1
Comparative tracking index	550 / -	V	IEC 60112
Relative permittivity (100Hz)	4.4 / -	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4.1 / -	-	IEC 62631-2-1
Relative permittivity (1GHz)	3.9 / -	-	IEC 61189-2-721
Relative permittivity (10GHz)	3.8 / -	-	IEC 61189-2-721
OTHER PROPERTIES			
	DRY / COND		
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1510 / -	kg/m³	ISO 1183

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