

# Stanyl<sup>®</sup> HFX63S

## PA46–GF35 FR(40)

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

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.1 / *	%	ISO 294–4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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 <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
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
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1510 / -	kg/m <sup>3</sup>	ISO 1183