

Stanyl[®] 46HF5145

PA46–GF43 FR

43% Glass Reinforced, Flame Retardant, for E8E applications

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.3 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	0.85 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	16000 / 11500	MPa	ISO 527–1/–2
Tensile modulus (120°C)	10000 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	7300	MPa	ISO 527–1/–2
Stress at break	210 / 160	MPa	ISO 527–1/–2
Stress at break (120°C)	120 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	100	MPa	ISO 527–1/–2
Strain at break	1.8 / 3	%	ISO 527–1/–2
Strain at break (120°C)	3.3 / –	%	ISO 527–1/–2
Strain at break (160°C)	4.5	%	ISO 527–1/–2
Flexural modulus	14500 / 11000	MPa	ISO 178
Flexural modulus (120°C)	9500	MPa	ISO 178
Flexural modulus (160°C)	7200	MPa	ISO 178
Flexural strength	310 / 250	MPa	ISO 178
Flexural strength (120°C)	200	MPa	ISO 178
Flexural strength (160°C)	140	MPa	ISO 178
Charpy impact strength (+23°C)	50 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / 18	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	16 / –	kJ/m ²	ISO 180/1A

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Property Data

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THERMAL PROPERTIES			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	280 / *	°C	ISO 75-1/-2
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	–	–
Relative Temperature Index – electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	3	mm	UL746B
OTHER PROPERTIES			
	<i>DRY / COND</i>		
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1730 / –	kg/m³	ISO 1183

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