

Stanyl[®] MC50 PA46-GF35 FR

35% Glass Fiber Reinforced, Flame Retardant (halogen-phosphorous-free)

Print Date: 2025-10-04

Stanyl MC50 is a special V-2 rated material with high flow. The Flame Retardant type is Nitrogen-based.

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	12500 / 8000	MPa	ISO 527-1/-2
Stress at break	200 / 140	MPa	ISO 527-1/-2
Strain at break	2.5 / 3.6	%	ISO 527-1/-2
Flexural modulus	12500 / 8000	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 70	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 13	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	11 / -	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	290 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	290 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.35	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ASTM D696
Relative Temperature Index — electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B

ELECTRICAL PROPERTIES

DRY / COND

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 62631-3-1
Electric strength	33 / 30	kV/mm	IEC 60243-1
Comparative tracking index	425 / –	V	IEC 60112
Relative permittivity (100Hz)	4.8 / 11.2		IEC 62631-2-1
Relative permittivity (1 MHz)	4.4 / 5.2	_	IEC 62631-2-1
OTHER PROPERTIES	DRY / COND		
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1490 / -	kg/m³	ISO 1183

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Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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