

Stanyl® MC51

PA46-GF35 FR

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

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	185 / 130	MPa	ISO 527-1/-2
Strain at break	1.9 / 3.5	%	ISO 527-1/-2
Flexural modulus	12000 / 8500	MPa	ISO 178
Flexural strength	270 / 170	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 13	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	280 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	280 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	285 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4	E-4/°C	ASTM D696
Coeff. of linear therm. expansion (normal)	0.45	E-4/°C	ASTM D696
Electrical properties			
	dry / cond		
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
Comparative tracking index	425 / -	V	IEC 60112



Property Data

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Humidity absorption	2.3 / *	%	Sim. to ISO 62
Density	1470 / -	kg/m ³	ISO 1183

