TECACOMP® PA66 TC grey 3974

PA66-(GF+MX) Ensinger Compounds

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**25**	cm³/10min	ISO 1133
Temperature	**280**	°C	-
Load	**5**	kg	-
Melt flow index, MFI	**50**	g/10min	ISO 1133
Temperature	**280**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**1.3**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.9**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**12600**	MPa	ISO 527
Tensile Strength	**135**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Charpy impact strength, +23°C	**31**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**4**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**255**	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	**50**	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	**242**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**40**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**92**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10

Electrical properties	Value	Unit	Test Standard
Other Standards[S]			
Volume resistivity	**5.1E11**	Ohm*m	IEC 61340-2-3
Surface resistivity	**1E13**	Ohm	IEC 61340-2-3

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.9**	%	Sim. to ISO 62
Density	**1980**	kg/m³	ISO 1183
Bulk density	**900**	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**290 - 310**	°C	-
Mold temperature	**90 - 150**	°C	-
Zone 1	**260 - 310**	°C	-

Characteristics

Processing
Injection Molding

Applications
Automotive, Electrical and Electronical

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific, South and Central America

Special Characteristics
Thermally Conductive