TECACOMP® PEEK TC black 1054135

PEEK — Ensinger Compounds

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**21**	g/10min	ISO 1133
Temperature	**380**	°C	-
Load	**10**	kg	-
Molding shrinkage, parallel	**0.5**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**10500**	MPa	ISO 527
Tensile Strength	**86**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Charpy impact strength, +23°C	**15**	kJ/m²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**343**	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	**143**	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	**264**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**16**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**22**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

Electrical properties	Value	Unit	Test Standard
Other Standards[S]			
Volume resistivity	**1.4E6**	Ohm*m	IEC 61340-2-3
Surface resistivity	**6.3E7**	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	**0.02**	%	Sim. to ISO 62
Density	**1510**	kg/m³	ISO 1183
Bulk density	**800**	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**140 - 160**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**390 - 400**	°C	-
Mold temperature	**160 - 210**	°C	-
Zone 1	**360 - 400**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

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

Delivery form

Pellets, Black