TECACOMP® PEEK TRM X black 1046849

PEEK-CF — Ensinger Compounds

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**25**	cm³/10min	ISO 1133
Temperature	**380**	°C	-
Load	**5**	kg	-
Melt flow index, MFI	**27**	g/10min	ISO 1133
Temperature	**380**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**12500**	MPa	ISO 527
Tensile Strength	**155**	MPa	ISO 527
Strain at break	**1.8**	%	ISO 527
Flexural modulus, 23°C	**10300**	MPa	ISO 178
Flexural strength	**190**	MPa	ISO 178
Charpy impact strength, +23°C	**28**	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	**315**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**335**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**15**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**37**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10

Electrical properties	Value	Unit	Test Standard
Other Standards[S]			
Volume resistivity	**1.7E6**	Ohm*m	IEC 61340-2-3
Surface resistivity	**160000**	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	**0.1**	%	Sim. to ISO 62
Density	**1610**	kg/m³	ISO 1183
Bulk density	**660**	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**140 - 180**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**390 - 400**	°C	-
Mold temperature	**160 - 200**	°C	-
Zone 1	**360 - 400**	°C	-

Characteristics

Processing
Injection Molding

Features
Tribologic Grade

Delivery form
Pellets, Black

Applications
Automotive

Additives
Lubricants

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