TECACOMP® POM TRM natural 3758

(POM+PTFE+SI) Ensinger Compounds

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**1.5**	cm³/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
Melt flow index, MFI	**1.5**	g/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**2.8**	%	ISO 294-4, 2577
Molding shrinkage, normal	**2.5**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2500**	MPa	ISO 527
Tensile Strength	**60**	MPa	ISO 527
Strain at break	**25**	%	ISO 527
Charpy notched impact strength, +23°C	**8**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**175**	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	**-60**	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	**115**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**170**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**121**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**117**	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	**4.5E13**	Ohm*m	IEC 61340-2-3
Surface resistivity	**6.6E13**	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	**0.2**	%	Sim. to ISO 62
Density	**1430**	kg/m³	ISO 1183
Bulk density	**680**	kg/m³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 100**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.2**	%	-
Melt temperature	**210 - 220**	°C	-
Mold temperature	**80 - 100**	°C	-
Zone 1	**180 - 220**	°C	-

Characteristics

Processing
Injection Molding

Features
Tribologic Grade, Homopolymer

Delivery form
Pellets, Natural Color

Applications
Automotive

Additives
Lubricants

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