

TECACOMP® PET TRM black 9415

Polyethylene Terephthalate

Ensinger GmbH

Message:

Main features

very good bearing and wear properties

Target Industries

automotive industry

mechanical engineering

General Information			
Filler / Reinforcement	PTFE fiber Carbon fiber reinforced material		
Features	Good wear resistance		
Uses	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	
Apparent Density	0.67	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	85	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.79	%	ISO 294-4
Flow	0.24	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ISO 527-2/50
Tensile Stress	175	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	255	°C	ISO 75-2/B
1.8 MPa, not annealed	235	°C	ISO 75-2/A
Glass Transition Temperature	70.0	°C	DIN 53765
Melting Temperature	255	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.2E-5	cm/cm/°C	ISO 11359-2

Flow: 80 to 110°C	8.0E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.5E-5	cm/cm/°C	ISO 11359-2
Horizontal: 80 to 110°C	1.2E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- ¹	0.40	W/m/K	DIN EN 821
-- ²	1.4	W/m/K	DIN EN 821
Service Temperature			
long term	110	°C	
short term	170	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.3E+5	ohms·cm	ISO 3915
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	< 120	°C	
Drying Time	3.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	130 - 160	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

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