

TECACOMP® PK TRM PVX black 4180

Polyketone

Ensinger GmbH

Message:

Main features
very good bearing and wear properties
Target Industries
automotive industry
mechanical engineering

General Information			
Filler / Reinforcement	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	1.30	g/cm³	
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	21	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	18.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.1	%	ISO 294-4
Flow	0.60	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2
Tensile Stress	90.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	30	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	207	°C	ISO 75-2/A
Glass Transition Temperature	15.0	°C	DIN 53765
Melting Temperature	220	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	4.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	1.0E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821

-- ¹	0.38	W/m/K	DIN EN 821
-- ²	0.65	W/m/K	DIN EN 821
Service Temperature			
long term	100	°C	
short term	140	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.9E+4	ohms	DIN EN 61340
Volume Resistivity	2.4E+6	ohms·cm	DIN EN 61340
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 3.0	hr	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	120	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

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