TECACOMP® PPS TRM PVX black 4008

Polyphenylene Sulfide

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		
Additive	Lubricant		
Features	Good wear resistance Lubrication		
Uses	Application in Automobile Field		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.49	g/cm³	
Apparent Density	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (316°C/2.16 kg)	45	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (316°C/2.16 kg)	35.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.58	%	ISO 294-4
Flow	0.21	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12500	MPa	ISO 527-2/50
Tensile Stress	130	MPa	ISO 527-2/50
Tensile Strain (Break)	1.0	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	15	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	285	°C	ISO 75-2/B
1.8 MPa, not annealed	270	°C	ISO 75-2/A

Glass Transition Temperature	90.0	°C	DIN 53765
Melting Temperature	280	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.3E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	4.9E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- [1]	0.50	W/m/K	DIN EN 821
-- [2]	0.90	W/m/K	DIN EN 821
Service Temperature			
long term	230	°C	
short term	260	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms·cm	ISO 3915
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	V-0		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	140 - 150	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.050	%	
Processing (Melt) Temp	300 - 350	°C	
Mold Temperature	140 - 160	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

Recommended distributors for this material

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