

TECACOMP® PPS TRM XS black 4009

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	1.47	g/cm³	
Apparent Density	0.55	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (316°C/2.16 kg)	35	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (316°C/2.16 kg)	29.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.64	%	ISO 294-4
Flow	0.13	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22500	MPa	ISO 527-2/50
Tensile Stress	135	MPa	ISO 527-2/50
Tensile Strain (Break)	0.50	%	ISO 527-2/50
Compressive Modulus	4650	MPa	ISO 604/1
Compressive Stress	155	MPa	ISO 604/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	18	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	280	°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	9.0E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	4.7E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- 1	0.70	W/m/K	DIN EN 821
-- 2	1.1	W/m/K	DIN EN 821
Service Temperature			
long term	230	°C	
short term	260	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.2E+3	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		

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