

TRIBOCOMP® PEEK TS9

Polyetheretherketone
EPIC Polymers

Message:

TRIBOCOMP® PEEK TS9 is a polyetheretherketone (PEEK) product. It is available in Europe.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.1	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	> 5.0	%	ISO 527-2
Flexural Modulus (23°C)	4200	MPa	ISO 178
Flexural Stress (23°C)	100	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.14		ASTM D3702
Static	0.12		ASTM D3702
Wear Factor	8.00		ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	65	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	300	°C	ISO 75-2/B
1.8 MPa, not annealed	175	°C	ISO 75-2/A
CLTE - Flow (23°C)	4.5E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.50	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Dielectric Strength (2.00 mm)	25	kV/mm	IEC 60243-1
Comparative Tracking Index	125	V	IEC 60112
Additional Information			
The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.			
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	

Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	340 - 360	°C
Middle Temperature	360 - 380	°C
Front Temperature	380 - 390	°C
Nozzle Temperature	380 - 390	°C
Mold Temperature	160 - 200	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

