

TRIBOFORCE® PEEK C2301

Polyetheretherketone

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

polyetheretherketone, carbon fibre reinforced, wear and friction modified

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Lubricated		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm³	ISO 1183
Molding Shrinkage ¹	0.050 to 0.20	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14300	MPa	ISO 527-2
Tensile Stress	165	MPa	ISO 527-2
Tensile Strain (Break)	1.9	%	ISO 527-2
Coefficient of Friction ² (vs. Steel - Dynamic)	0.12		ASTM G137
Wear Factor ³ (5.0 MPa, 1.0 m/sec)	30	10^-8 mm³/N·m	ASTM G137
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	32	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	340	°C	ISO 11357-3
Additional Information	Nominal Value		
Temperature of Use - Long-Time			
< 130°C	Yes		
130 to 200°C	Yes		
200 to 260°C	Yes		
260 to 300°C	Yes		
NOTE			
1.	60mm x 60mm x 2mm		
2.	5 MPa, 1 m/s, dry		
3.	Steel		

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