

TRIBOFORCE® PPS C1800

Polyphenylene Sulfide

LEIS Polytechnik - polymere Werkstoffe GmbH

Message:

polyphenylene sulfide, carbon fibre reinforced, wear and friction modified

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Lubricated		
Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm³	ISO 1183
Molding Shrinkage ¹	0.050 to 0.20	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2
Tensile Stress	115	MPa	ISO 527-2
Tensile Strain (Break)	1.0	%	ISO 527-2
Coefficient of Friction			ASTM G137
vs. Steel - Dynamic ²	0.19		
vs. Steel - Dynamic ³	0.29		
Wear Factor ⁴			ASTM G137
3.0 MPa, 1.0 m/sec	70	10^-8 mm³/N·m	
5.0 MPa, 1.0 m/sec	170	10^-8 mm³/N·m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	15	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	275	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	1.1E-5	cm/cm/°C	
Transverse : 23 to 55°C	4.5E-5	cm/cm/°C	
Additional Information	Nominal Value		
Temperature of Use - Long-Time			
< 130°C	Yes		
130 to 200°C	Yes		
200 to 260°C	No		
260 to 300°C	No		
NOTE			
1.	60mm x 60mm x 2mm		
2.	5 MPa, 1 m/s, dry		
3.	3 MPa, 1 m/s, dry		

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