

Datasheet TEMPG



TEMPG is a thermoplastic material containing a thread of fibres mixed with solid lubricants. The product exhibits good wear resistance. The solid lubricants reduce the friction factor and, through microabrasion, they form an excellent sliding surface. These products are used in various applications ranging from office equipment to medical devices, pneumatic cylinders, hinges, stirring rods, etc. The TEMPG range includes cylindrical and flanged bearings and rings. Custom parts are available upon request.

Application

Material

Thermoplastic mixed met fibres.

Availability

	Value	Unit
Inside diameter	on request	
Outside diameter	on request	
Flange diameter	on request	
Flange height	on request	
Total length	on request	



TEMPG - Specifications

Physical properties

	Test standard	Value	Unit
Moisture absorption at 23°C, 50% RH	ISO-62	0,7	%

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength	ISO-527	142	MPa
Shear strength		on request	
Impact strength	ASTM D256-A	88	J/m
Hardness		on request	
Dynamic load capacity		on request	
Elongation at break	ISO-527	3,6	%
Modulus of elasticity in tension	ISO-527R	7900	MPa
Charpy impact strength +23°C	ISO 179-1	74	Kj/m ²
Charpy notched impact strength +23°C	ISO 179-1	7,8	Kj/m ²

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		130	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		0,08-0,20	[-]
Max. sliding speed		on request	
Max. Pv-load dry		on request	
Max. Pv-load oil lubricated		on request	
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit
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