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Datasheet TECS1



TECS1 self-lubricating bearings for automatic transmissions in automobiles. It is developed based on the previous TEMU formulation. The particular conditions of planetary gears of the automatic transmissions of cars have been taken into account. TECS1 is designed as a new lead-free and environmentally friendly product. The plastic surface is white. Its properties and performance are similar to the foreign-made product P141. It has excellent self-lubricating, wear and fatigue properties, and has a long service life.

Application

Material

Steel + frcition modifier.

Availablity

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

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TECS1 - Specifications

Physical properties

	Test standard	Value	Unit

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		on request	
Impact strength		on request	
Hardness		on request	
Dynamic load capacity		140	MPa

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-195	°C
Max. working temperature		280	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		0.04-0.20	[-]
Max. sliding speed		5	m/s
Max. Pv-load dry		3,6	MPa*m/s
Max. Pv-load oil lubricated		50	MPa*m/s
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit

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