

ID Material: R1
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RP01

RP01 is black rigid friction material which consists phenol resins as a bonding system, short fibres, friction modifiers and fillers. This offers a medium high static co efficiency and an excellent mechanical resistance, very successful for wind turbine components. RP01 is fully cured and suitable for bonding and riveting.

Material data

Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.55±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.40±0.05	μ
Wear Rate (10bar, 15m/s):	40±10	mm ³ /Kwh
T ⁹ Fading (10bar, 10m/s):	>310°C	°C

Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792-91):	1.75±0.05	gr/cm ³
Thermal Conductivity (ASTM E1952-01):	0.49±0.01	W/m ² K

Mechanical properties

Tensile Strength (ASTM D638-10):	19±5	N/mm ²
Compressive Strength (UNE 53205):	110±5	N/mm ²
Shear Modulus (ASTM D2344-00):	2687±100	N/mm ²
Poisson Coefficient:	0.24±0.03	
Young Modulus (ASTMD 638-10):	5506±100	N/mm ²

Recommended Working Values

T° Max. Continuous Operation:	200	°C
T° Max. Intermittent Operation:	300	°C

Material type : Rigid material

Appearance / Formats



Applications

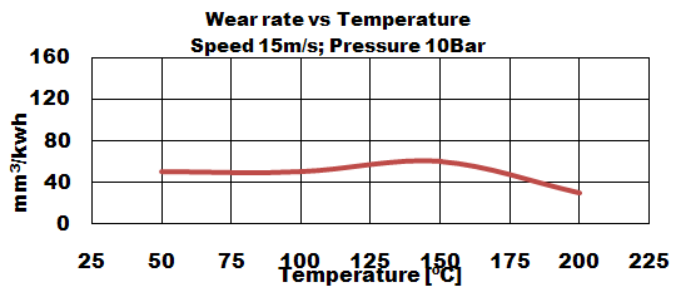
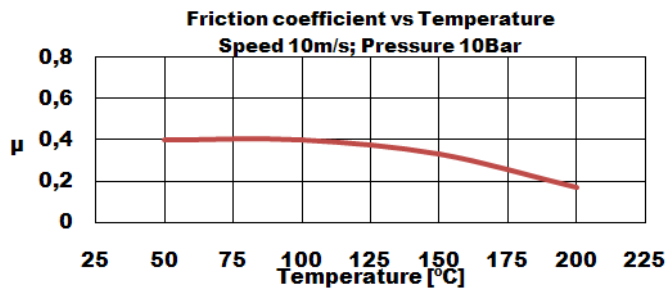
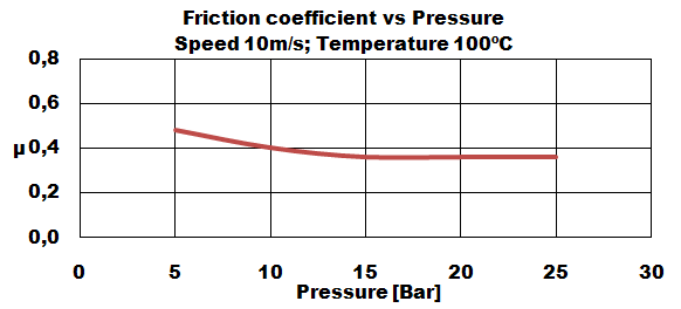
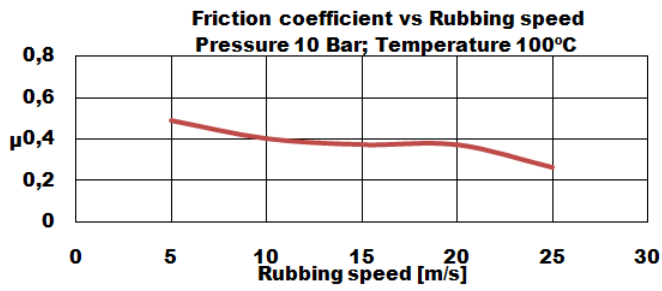
Damper Technologies - Heavy duty static applications - Holding
Mechanical Structures - Yaw brakes -

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/EU : Compliance

Others

Recommended Mating Surface:	Perlitic cast iron, hardness HB150-200
Recommended Adhesives:	Thermosetting adhesive
Oil Resistant:	Yes



Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.