

ID Material: PA
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SA7251

SA5251 is rigid moulded, asbestos free friction material on a elastomeric/resin matrix, reinforced with synthetic fibers, without metal components. This matrix help so much at mechanical propieties. SA7251 is fully cured material and is suitable for bonding & rivetting.

Material data

Friction Properties (according graphics)

| | | |
|--|------------|----|
| Static Friction Coefficient (15bar, from box): | 0.35±0.05 | μ |
| Static Friction Coefficient (15bar, 100°C): | 0.35±0.05 | μ |
| Dynamic Friction Coefficient: | see charts | |
| Wear Rate: | see charts | |
| T° Fading: | >350 | °C |

Physical properties

| | | |
|------------------------------------|------------|---------|
| Hardness (DIN53505): | 82±5 | Shore-D |
| Specific Gravity (ASTM D792): | 1.70 ± 0.1 | gr/cm3 |
| Thermal Conductivity (ASTM E1952): | 0.49±0.01 | W/m²K |

Mechanical properties

| | | |
|--------------------------------------|----------|-------|
| Tensile Strength (ASTM D638): | 25±5 | N/mm² |
| Compressive Strength (ISO 844:2014): | 130±5 | N/mm² |
| Young Modulus (ASTM D638): | 2510±100 | N/mm² |

Recommended Working Values

| | | |
|---------------------------------|------|-----|
| T° Max. Continuous Operation: | <250 | °C |
| T° Max. Intermittent Operation: | <400 | °C |
| Max. pressure: | <50 | Bar |
| Max. Rubbing Speed: | <40 | m/s |

Material type : Rigid material

Appearance / Formats



Sheets

Shoes

Machined

Rings

Applications

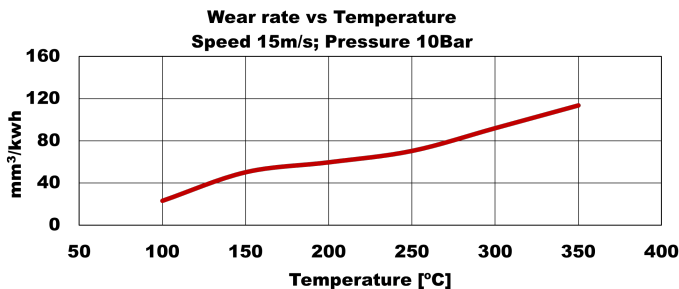
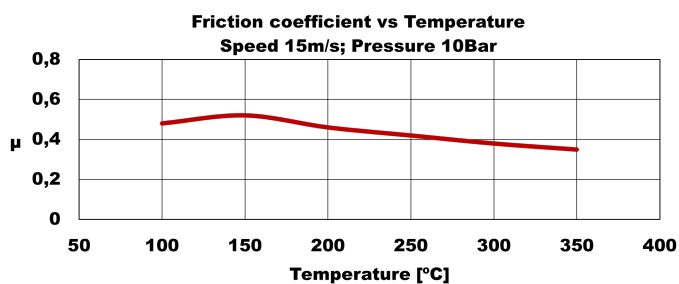
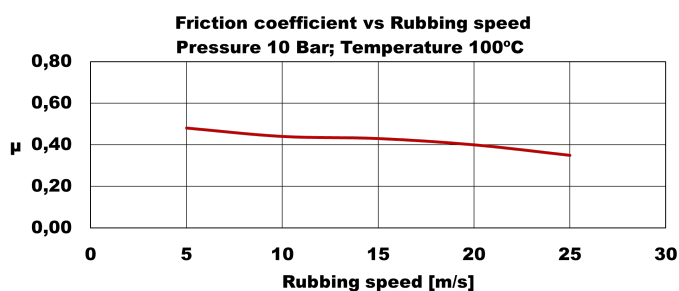
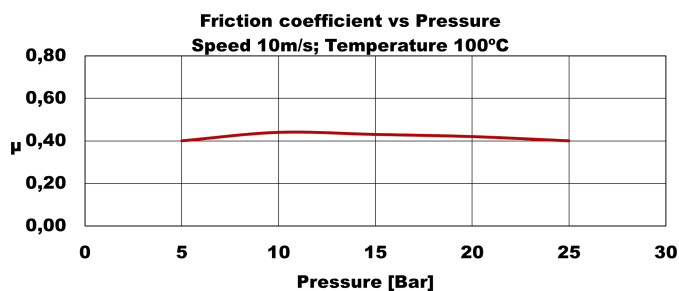
Brake pads - Drum Brakes - Industrial clutches - Miscellaneous industrial brakes / clutches - Rings segments for machinery

Price Level : € € €

Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

Others

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



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.