

ID Material: 4
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SA92

SA92 is a Frenos Sauleda standard formulation which is suitable for light medium duty. It is a rigid material, with low wear and very stable friction performance. The material main composition is phenol resins with a NBR bonding system, short fibres, friction modifiers and fillers. SA92 is fully cured and suitable for bonding and riveting.

Material data

Friction properties (according graphics)

| | | |
|--|-----------|----------------------|
| Static Friction Coefficient (15bar, from box): | 0.45±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): | 120±10 | mm ³ /Kwh |
| T ^o Fading (10bar, 10m/s): | >350°C | °C |

Physical properties

| | | |
|---------------------------------------|-----------|--------------------|
| Hardness (DIN53505): | 85±5 | Shore-D |
| Specific Gravity (ASTM D792-91): | 1.8±0.05 | gr/cm ³ |
| Thermal Conductivity (ASTM E1952-01): | 0.44±0.01 | W/m ² K |
| Shear resistance (ISO 6312:2001): | 22±2 | N/mm ² |

Mechanical properties

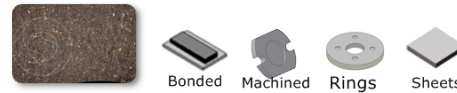
| | | |
|-----------------------------------|-----------|-------------------|
| Tensile Strength (ASTM D638-10): | 14±5 | N/mm ² |
| Compressive Strength (UNE 53205): | 140±5 | N/mm ² |
| Poisson Coefficient: | 0.27±0.03 | |
| Young Modulus (ASTMD 638-10): | 3896±100 | N/mm ² |

Recommended Working Values

| | | |
|---|-----|----|
| T ^o Max. Continuous Operation: | 250 | °C |
| T ^o Max. Intermittent Operation: | 350 | °C |

Material type : Rigid material

Appearance / Formats



Applications

Agricultural and building machinery - Callipers for industrial applications - Cones segments for machinery - Friction washers - Gear discs for industrial devices - Industrial clutches - Rings segments for machinery -

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 |

