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ID Material: 4
Rble: R. Antich
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SA92

SA92 is our most regular quality which is suitable for light and medium duty applications. It's a rigid material, with low wear and a very stable friction performance. It's a phenolic resin based material, mixed with NBR powders to get perfect linkage, and it also has short fibers and other friction modifiers / fillers. SA92 is fully cured and suitable for bonding and riveting.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.48±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.53±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.83±0.05	gr/cm3
Shear resistance (ISO 6312:2001):	22±2	N/mm^2

Mechanical properties

Tensile Strength (ASTM D638):	13±5	N/mm^2
Compressive Strength (ISO 844:2014):	150±5	N/mm^2
Shear Modulus (ASTM D2344-00):	1534±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.27±0.03	
Young Modulus (ASTM D638):	3896±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Rigid material

Appearance / Formats

Applications

Agricultural and bulding 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)1907/2023 - RoHS 2015/863/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.