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science friction

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SA80/M

SA80/M is grey molded friction material with a medium high friction coefficient reinforced with metal components. This material is recommended for machining, having excellent friction characteristics. The material consists phenolic resins with NBR bonding system, short fibres, friction modifiers, metal particles and fillers. SA80/M is fully cured and suitable for bonding and riveting.

Material data

Friction propieties (according graphics)

Static Friction Coefficient (15bar, from box):	0.55±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.60±0.05	µ
Dynamic Friction Coefficient (10bar, 10m/s):	0.50±0.05	µ
Wear Rate (79N, 7m/s):	70±10	mm^3/Kwh
Tº Fading (100N, 11.5m/s):	310±10	°C

Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792-91):	1.80±0.05	gr/cm3
Ignition Loss (ASTM D-2524):	43±2	%
Acetone Extraction ISO2859-1:	2±0.2	%

Mechanical properties

Tensile Strength (ASTM D638-10):	12±1	N/mm^2
Compressive Strength (UNE 53205):	110±5	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

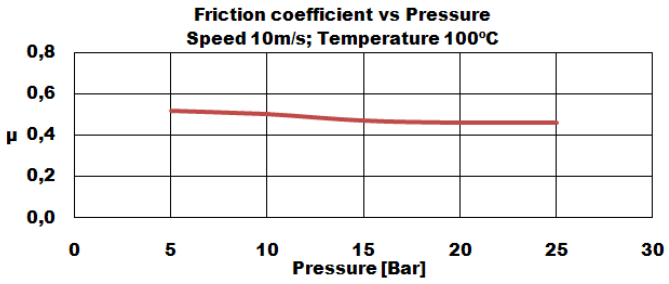
Callipers for industrial applications - Friction washers - Miscellaneous industrial brakes / clutches - Torque limitator -

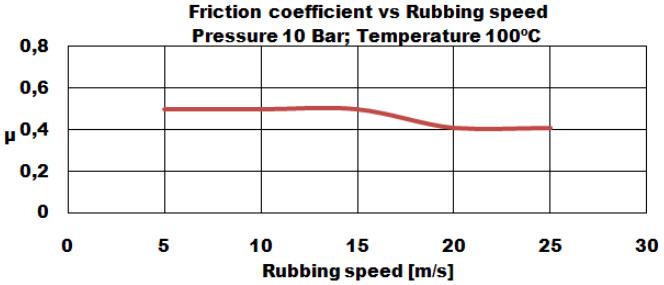
Price Level : € € €

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.