

ID Material: 16
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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 properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.55±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.60±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.50±0.05	μ
Wear Rate (10bar, 15m/s):	105±10	mm ³ /Kwh
T° Fading (10bar, 10m/s):	>340°C	°C

Physical properties

Hardness (DIN53505):	78±5	Shore-D
Specific Gravity (ASTM D792-91):	1.80±0.05	gr/cm3
Ignition Loss (ASTM D-2524):	43±2	%

Mechanical properties

Tensile Strength (ASTM D638-10):	10±2	N/mm ²
Compressive Strength (UNE 53205):	110±5	N/mm ²
Poisson Coefficient:	0.18±0.03	
Young Modulus (ASTMD 638-10):	2500±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

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

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

