

ID Material: 16
Rble: R. Antich
Revision: 6
Last updated: 31/07/2021

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:	see charts	
Wear Rate:	see charts	
T ^º Fading:	>340	°C

Physical properties

Hardness (DIN53505):	78±5	Shore-D
Specific Gravity (ASTM D792):	1.80±0.05	gr/cm3
Ignition Loss (ASTM D7348):	43±2	%

Mechanical properties

Tensile Strength (ASTM D638):	10±2	N/mm ²
Compressive Strength (ISO 844:2014):	100±5	N/mm ²
Shear Modulus (ASTM D2344-00):	1060±100	N/mm ²
Poisson Coefficient (ASTM D638):	0.18±0.03	
Young Modulus (ASTM D638):	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



Bonded Machined Rings Sheets Washers

Applications

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

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

