

ID Material: 40  
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# MM

MM is designed for heavy duty industrial brake applications. It consists a resin of impregnated textile based material with metal components. MM has a good mechanical resistance, 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:                  | see charts |    |
| Wear Rate:                                     | see charts |    |
| T° Fading:                                     | >200       | °C |

### Physical properties

|                                 |          |         |
|---------------------------------|----------|---------|
| Hardness (DIN53505):            | 90±5     | Shore-D |
| Specific Gravity (ASTM D792):   | 1.6±0.05 | gr/cm3  |
| Ignition Loss (ASTM D7348):     | 20±2     | %       |
| Acetone Extraction (ASTM D494): | 3±0.2    | %       |

### Mechanical properties

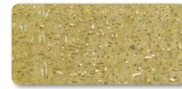
|                                      |           |                   |
|--------------------------------------|-----------|-------------------|
| Tensile Strength (ASTM D638):        | 47±5      | N/mm <sup>2</sup> |
| Compressive Strength (ISO 844:2014): | 410±5     | N/mm <sup>2</sup> |
| Shear Modulus (ASTM D2344-00):       | 5320±100  | N/mm <sup>2</sup> |
| Poisson Coefficient (ASTM D638):     | 0.255     |                   |
| Young Modulus (ASTM D638):           | 13354±100 | N/mm <sup>2</sup> |

### Recommended Working Values

|                                 |     |    |
|---------------------------------|-----|----|
| T° Max. Continuous Operation:   | 200 | °C |
| T° Max. Intermittent Operation: | 250 | °C |

Material type : Rigid material

### Appearance / Formats



### Applications

Forging machinery - Heavy duty static applications - Heavy-duty industrial machinery - Holding Mechanical Structures - Machinery Mining industries -

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                                    |

