

ID Material: 16
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TF3080

TF3080 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. TF3080 is fully cured and suitable for bonding and riveting.

Material Data

Friction Properties (according to graphics)

Dynamic Friction Coefficient:	0.50±0.05	μ
Wear Rate:	60 (at 150 °C)	μ
T° 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
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



Applications

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

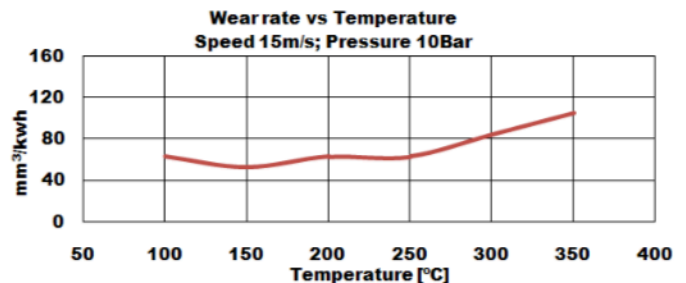
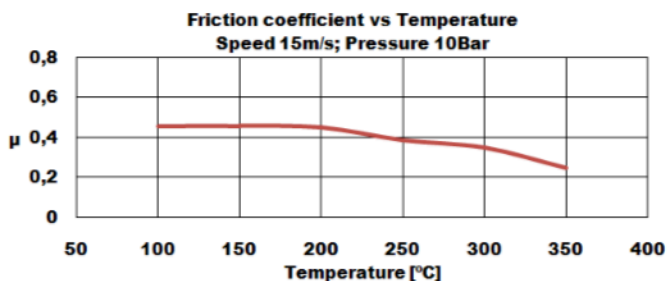
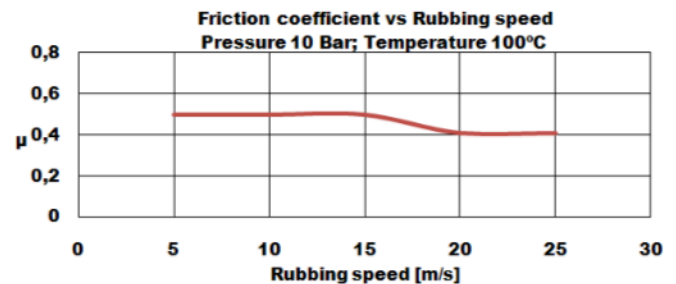
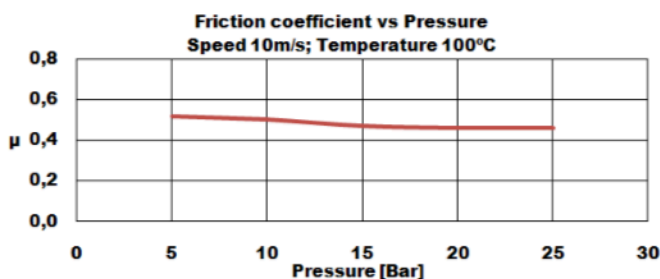
Price Level : \$ \$ \$

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

The above data is taken from specific test parameters therefore results can vary in different application conditions



Friction coefficient, 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.