

ID Material: 27
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Revision: 5
Last updated: 07/05/2018

GHFM

GHFM is a soft-flexible friction material that performs with a high friction coefficient. Its flexibility allows it to work noiseless while producing a minimum wear on working surfaces. The material consists phenolic resins with a NBR rubber bonding system, short and brass fibres, friction modifiers and fillers. GHFM is fully cured and suitable for bonding and riveting.

Material data

Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.65±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.50±0.05	μ
Wear Rate (10bar, 15m/s):	65±10	mm ³ /Kwh
T° Fading (10bar, 10m/s):	>350°C	°C

Physical properties

Hardness (DIN53505):	55±5	Shore-D
Specific Gravity (ASTM D792-91):	1.7±0.05	gr/cm ³
Thermal Conductivity (ASTM E1952-01):	0.33±0.01	W/m ² K

Mechanical properties

Tensile Strength (ASTM D638-10):	3±5	N/mm ²
Compressive Strength (UNE 53205):	190±5	N/mm ²
Poisson Coefficient:	0.34±0.03	
Young Modulus (ASTMD 638-10):	504±100	N/mm ²

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Flexible material

Appearance / Formats



Bonded

Rings

Sheets

Washers

Applications

Callipers for industrial applications - Heavy loaded Winches and Cranes - Static brakes -

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

