

ID Material: 16 R. Antich Revision: 6 Date: 1/25/19

TF4242

TF4242 is a soft-flexible friction material that performs with a high friction coefficiency. 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 fibers, friction modifiers and fillers. TF4242 is fully cured and suitable for bonding and riveting.

Material Data

Friction Properties (according to graphics)			Material Type : Flexible material	
Static Friction Coefficient (15bar, from b	ox): 0.65±0.05	μ	Appearance / Formats	
Static Friction Coefficient (15bar, 100oC): 0.50±0.05 μ				
Dynamic Friction Coefficient:	0.5±0.05	μ		
Wear Rate:	30 (at 302 ºF)	μ	Bonded Rings Sheets Washers	
T° Fading:	>662	°F		
Physical Properties			Applications	
Hardness (DIN53505):	55±5	Shore-D	Callipers for industrial applications - Heavy loaded Winches	
Specific Gravity (ASTM D792): 1.	70±0.05	gr/cm3	and Cranes - Static brakes -	
Thermal Conductivity (ASTM E1952):	33±0.01	W/m°K	Price Level : \$ \$ \$ \$	
Mechanical Properties			Reach (EC) 1907/2006 - RoHS 2011/65/EU : Compliance	
Tensile Strength (ASTM D638):	3±5	N/mm ²	Others	
Compressive Strength (ISO 844:2014):	014): 190±5 N/mm ² : 0.34±0.03		Recommended Mating Surface: Perlitic cast iron, hardness HB150-200	
Poisson Coefficient (ASTM D638):				
Young Modulus (ASTM D638):	3500±100	N/mm²	Recommended Adhesives: Thermosetting adhesive	
Recommended Working Values			Oil Resistant: Yes	
T ^o Max, Continuous Operation	482	°F		

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

°F

662



Rubbing speed, 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

T° Max. Intermittent Operation: