



IMA
MATERIALI DI ATRITO
PER FRENI E FRIZIONI



MI 00 110

MI00110 è un materiale di attrito stampato molto forte e rigido. Composizione del materiale: resine, fibre organiche e minerali e modificatori di attrito. MI00110 è adatto per applicazioni industriali con un coefficiente di attrito medio. Ha una buona resistenza alla dissolvenza e all'usura. È un materiale completamente indurito ed è adatto per l'incollaggio e la rivettatura.

MI00110 is a very strong rigid molded friction material. The basic compounds that have been used are resins for the bonding system, organic and minerals fibres and friction modifiers. MI00110 is suitable for industrial applications with a medium friction efficiency. It has good resistance to fading and wear. It is a fully cured material and is suitable for bonding and riveting.

Dati Tecnici / Technical Data

Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.42±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>350	°C

Physical properties

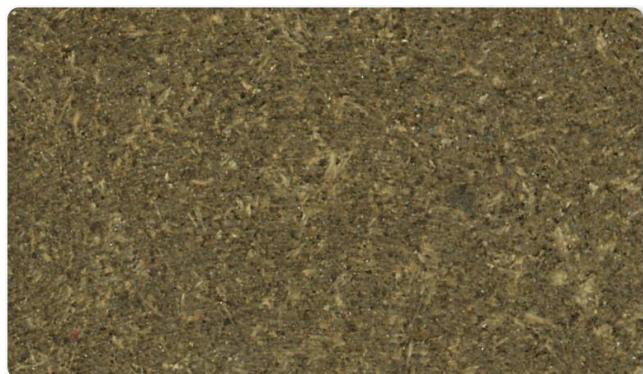
Hardness (DIN53505):	84±5	Shore-D
Specific Gravity (ASTM D792):	1.9±0.05	gr/cm ³
Ignition Loss (ASTM D7348):	31±2	%
Acetone Extraction (ASTM D494):	1±0.2	%

Mechanical properties

Tensile Strength (ASTM D638):	18±5	N/mm ²
Compressive Strength (ISO 844:2014):	140±5	N/mm ²
Shear Modulus (ASTM D2344-00):	2946±100	N/mm ²
Poisson Coefficient (ASTM D638):	0.195±0.03	
Young Modulus (ASTM D638):	7042±100	N/mm ²

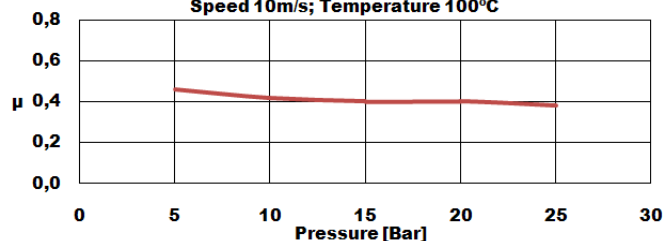
Recommended Working Values

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

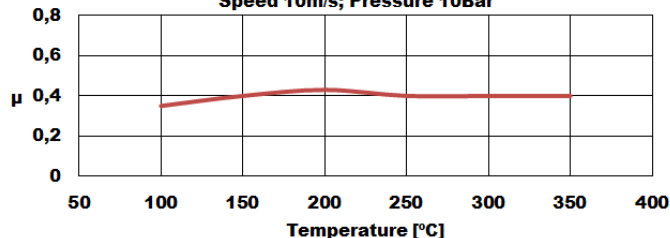


Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.

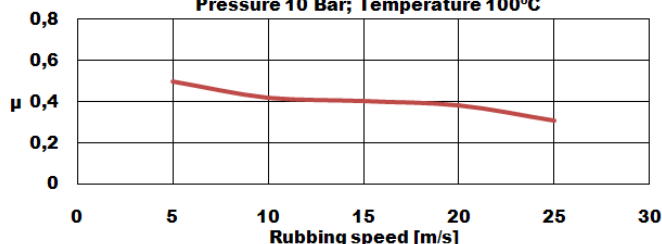
Friction coefficient vs Pressure
Speed 10m/s; Temperature 100°C



Friction coefficient vs Temperature
Speed 10m/s; Pressure 10Bar



Friction coefficient vs Rubbing speed
Pressure 10 Bar; Temperature 100°C



Wear rate vs Temperature
Speed 15m/s; Pressure 10Bar

