



Material: FTL175.1

Description

Based on the FTL178 formulation, modifications have been made to the resin in order to increase the friction coefficient.

Applications

- Various industrial applications.
- Industrial assembly applications.
- Brake pads
- Static brakes

Physical properties

- Density g/cm 1.80-1.97
- Hardness (SHORE-D) 80-85
- Acetone extraction <2.5%
- Ignition loss 42-44.5%

Mechanical properties

- Tensile strength N/mm² (ASTM D-638) 11.97
- Compressive strength N/mm² 10% (UNE 53205) 58.5
- Ultimate compressive strength N/mm² (UNE 53205) 109.5

Friction properties

- Friction coefficient (dynamic) μ (See graph) 0.45 \pm 0.05
- Wear rate (@ 79N, 7m/s) F.A.S.T 45 - 85mm³ /Kwh

F.A.S.T. test conditions (max temperature).

The FAST is a 90-minute test at constant pressure and velocity, which reports response of friction coefficient vs temperature. These are maximum temperatures resistance before material lost coefficient

F=79N v=7m/s t=90min <250°C

F=100N v=11m/s t=50min <320°C

Recommended operating temperatures (max):

- Continuous operation 250°C
- Intermittent operation 350 °C

Adhesives

The use of any well known thermosetting adhesive is recommended.

Rubbing surfaces

Good quality, fine grained pearlitic cast iron with Brinell hardness of 150-200 is recommended.

μ (friction coefficient) vs temperature @79N/7m/s

