μtech

R001
ELASTOMER

DATA SHEET

Material Description

R001 is a rubber based friction material. This is a flexible but resilient material providing high mechanical fatigue resistance and a stable coefficient of friction.

- Good thermal stability
- Stable coefficient of friction
- Excellent engagement characteristics
- Good wear resistance

Typical Applications

- Swing & travel brakes
- Powershift transmissions

Friction Coefficient (wet)

- Static: 0.10 - 0.15
- Dynamic: 0.09 - 0.12

Mating Material

- Surface finish < 0.5μm Ra (20μ“)
- Steel
- Cast steel
- Grey cast iron

Microstructure of R001 50X

Recommended Load

- Max dynamic pressure: 2.0 N/mm² (290 Lbf/in²)
- Max rubbing speed: 35 m/s (115 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)

Oil Grooving

- Pressed Grooving patterns in variety of configurations

Dimensions

- Friction thickness: 1.2 mm (0.047”) max
  0.60 mm (0.024”) min
- Friction diameter: 750 mm (29”) max

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

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