

ID Material: T5
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TOP/05

TOP/05 is green molded friction material which main characteristics are flexibility and a high static friction coefficient. Due to the metal components this material is resistant to high temperatures. It consists phenolic resins with a NBR rubber bonding system, short and brass fibres, friction modifiers and fillers. TOP/05 is semi-cured and suitable for bonding and riveting.

Material data

Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.60±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.60±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>300	°C

Physical properties

Hardness (DIN53505):	45±5	Shore-D
Specific Gravity (ASTM D792):	1.6±0.05	gr/cm3
Ignition Loss (ASTM D7348):	43±2	%
Acetone Extraction (ASTM D494):	1±0.2	%
Thermal Conductivity (ASTM E1952):	0.22±0.01	W/m°K

Mechanical properties

Tensile Strength (ASTM D638):	5±2	N/mm ²
Compressive Strength (ISO 844:2014):	143±5	N/mm ²
Shear Modulus (ASTM D2344-00):	175±10	N/mm ²
Poisson Coefficient (ASTM D638):	0.36±0.03	
Young Modulus (ASTM D638):	474±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



Applications

Brake pads

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

