

ID Material: T5  
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Revision: 5  
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# TOP/05

**TOP/05 is green molded friction material which main characteristics are flexibility and a high static friction coefficient. This material is resistant to high temperatures. It consists phenolic resins with a NBR rubber bonding system, short fibers, 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 <sup>2</sup> 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

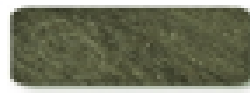
Tensile Strength (ASTM D638):	5±2	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	143±5	N/mm <sup>2</sup>
Shear Modulus (ASTM D2344-00):	175±10	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.36±0.03	
Young Modulus (ASTM D638):	474±100	N/mm <sup>2</sup>

### 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)1907/2023 - RoHS 2015/863/EU : Compliance

### Others

Recommended Mating Surface:	Perlitic cast iron, hardness HB150-200
Recommended Adhesives:	Thermosetting adhesive
Oil Resistant:	Yes

