

ID Material: R1  
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# RP01

RP01 is black rigid friction material which consists phenol resins as a bonding system, short fibres, friction modifiers and fillers. This offers a medium high static co efficiency and an excellent mechanical resistance, very successful for wind turbine components. RP01 is fully cured and suitable for bonding and riveting.

## Material data

### Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.55±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>310	°C

### Physical properties

Hardness (DIN53505):	80±5	Shore-D
Specific Gravity (ASTM D792):	1.75±0.05	gr/cm3
Thermal Conductivity (ASTM E1952):	0.49±0.01	W/m²K

### Mechanical properties

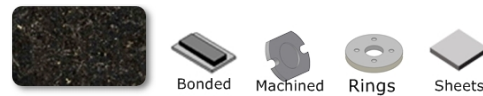
Tensile Strength (ASTM D638):	19±5	N/mm²
Compressive Strength (ISO 844:2014):	110±5	N/mm²
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	5506±100	N/mm²

### Recommended Working Values

T° Max. Continuous Operation:	200	°C
T° Max. Intermittent Operation:	300	°C

Material type : Rigid material

### Appearance / Formats



### Applications

Damper Technologies - Heavy duty static applications - Holding  
Mechanical Structures - Yaw brakes

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

