

ID Material: 54
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SFD

SFD is green rigid friction material which consists phenol resins as a bonding system, short fibres, friction modifiers and fillers. This offers a medium high static coefficient and an excellent mechanical resistance, very successful for wind turbine components.

SFD 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):	20±5	N/mm²
Compressive Strength (ISO 844:2014):	115±10	N/mm²
Shear Modulus (ASTM D2344-00):	2690±100	N/mm²
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	5500±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)1907/2006 - RoHS 2011/65/EU : Compliance

Others

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

