

Brandonite® 1511-80D

Product Description

Brandonite® 1511-80D is a high performance Polyurethane composite combining outstanding lubricity with an excellent balance of mechanical and physical properties, such as high rigidity and excellent resistance to hydrolytic degradation.

Applications

Brandonite® 1511-80D is designed specially for uses in oil field applications. Typical applications include a variety of large journal bearings in replacing metal bearings.

Brandonite® 1511-80D is specially formulated to provide the following physical and mechanical properties:

PROPERTIES	TEST METHOD	UNIT OF MEASURE	RESULT
Specific Gravity	ASTM D 792	sp gr 23/23°C	1.165
Shore Hardness	ASTM D 2240	D Scale	80
Tensile Strength	ASTM D 412	psi	5,300
Elongation at Break	ASTM D 412	%	11
Young's Modulus	ASTM D 790	psi	130,000
Impact Strength, Notched Izod (68°F/50% RH)	ASTM D 256	ft.lb./in	1.5
Impact Strength, Unnotched Izod (68°F/50% RH)	ASTM D 256	ft.lb./in	37
Coefficient of Friction, Static (On steel/dry)	ASTM D 1894	N/A	0.14 – 0.16
Coefficient of Friction, Kinetic (On steel/dry)	ASTM D 1894	N/A	0.08 – 0.12
Coefficient of Thermal Expansion	ASTM D 696	in/in-°F	8.7E-5

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