

FLUOROLON NYLON 5651

Nylon 5651, Fluorolon fiber composite, is especially suited for high load/high rpm bearing applications, also has a superior stiffness and strength in many heavy duty friction generating part life, and increased performance is required at temperatures of 250 F.

APPLICATIONS:

Nylon 5651 typical applications are as followed: pillow blocks, trunnion bearings, rope sheaves, pulleys, sprockets, slipper pads, and dryer bushings and wear pads.

Property	Specified	Units	Method
Tensile Strength	34,500	psi	ASTM D638
Elongation	-1	%	ASTM D638
Tensile Modulus	565,000	psi	ASTM D638
Compressive Strength	71,000	psi	ASTM D695
Flexural Strength	125,000	psi	ASMT D790
Flexural Modulus	7,000,000	psi	ASTM D790
Notched Impact	18.4	ft/lb/in	ASTM D256
Hardness	.80 – .84	shore-D	-
Coefficient of Friction	.13 – .20	-	dry vs steel
Service Temperature	250	(F)	-
Thermal Expansion	5.5 x 10 ⁻⁵	in/in/F	ASTM D696
Wear Factor	120	k	K (in ³ /min/ft/lb/hr)
Specific Gravity	1.15	g/cm ³	ASTM D792
Water Absorption	.40	24hours-%	ASTM D570
Dielectric	500 – 600	volts/mil	ASTM D149
Heat Deflection Temperature	451	(F)	ASTM D639
Density	1.45	g/cc	-

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