



CT Gasket & Polymer Co., Inc.

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Nylon

Nylon's toughness, low coefficient of friction, and good abrasion resistance make it an ideal replacement for a variety of materials from metals to rubber. The ability to operate without lubrication makes it ideal for hard to lubricate areas.

Nylons can withstand continuous exposure to 149° F and offer good chemical resistance to hydrocarbons, aromatic and aliphatic solvents, common automotive oils and fuels, and refrigerants. Nylons are attacked by strong acids, bases, and phenol.

Nylon with Molybdenum Disulfide added (NYLON MD) offers a material with a hard surface and self lubrication, enhancing wear.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNITS	ASTM	NYLON 6/6	NYLON MD
Specific Gravity, 73 Deg. F.	-	D792	1.15	1.16
Tensile Strength, 73 Deg. F.	psi	D-638	11,500	12,500
Tensile Modulus of Elast, 73 Deg. F.	psi	D-638	425,000	480,000
Tensile Elongation, 73 Deg. F.	%	D-638	50	25
Flexural Strength, 73 Deg. F.	psi	D-790	15,000	17,000
Flexural Modulus of Elast., 73 Deg. F.	psi	D-790	450,000	460,000
Shear Strength, 73 Deg. F.	psi	D-732	10,000	10,500
Compressive Strength, 10% Deform.	psi	D-695	12,500	16,000
Coefficient of Friction (Dry vs. Steel)	-	-	0.25	0.2
Izod Impact (notched), 73 Deg. F.	ft lb/in	D-256	0.6	0.5
Coefficient of Linear Therm. Expansion	in/in/F.	D-696	5.50 x 10(-5)	4.00 x 10(-4)
Heat Deflection Temp. @ 264 psi	Deg. F.	D-648	200	200
Melting Point	Deg. F.	D-789	500	500
Continuous Service Temp., Air, Max.	Deg. F.	-	210	220
Dielectric Strength	V/mil	D-149	400	350
Volume Resistivity	ohm-cm	D-257	4.5 x 10(13)	2.5 x 10(13)
Dielectric Constant, 60Hz	-	D-150	3.6	-
Water Absorption, Immersion - 24 hrs.	%	D-570	0.3	0.3
Water Absorption, Saturation	%	D-570	7.0	7.0

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability.