

Redco™ NYLON

PHYSICAL & MECHANICAL PROPERTIES	REDCO™ NYLON NATURAL	REDCO™ NYLON NATURAL OIL	REDCO™ NYLON BLUE	REDCO™ NYLON MD	REDCO™ NYLON OIL	REDCO™ NYLON MD-OIL	REDCO™ NYLON SL	REDCO™ NYLON PVM
SPECIFIC GRAVITY (g/cm ³)	1.15	1.14	1.15	1.15	1.14	1.15	1.13	1.13
TENSILE STRENGTH (psi)	10,500 - 12,000	10,000 - 14,000	10,500 - 12,000	10,500 - 12,000	10,000	10,000 - 12,000	10,000 - 12,000	10,000
COMPRESSIVE STRENGTH @ 10% DEFLECTION (psi)	15,000	13,000 - 15,000	10,000 - 15,000	15,000	14,000 - 15,000	14,500	14,000 - 15,000	12,000
PRESSURE VELOCITY (PV) (ft/min/psi)	3,000	4,000	3,000	3,000	4,000	5,000	15,000	16,000
ELONGATION @ BREAK (%)	20 - 60	20 - 60	20 - 40	20 - 40	20 - 40	20 - 45	20 - 45	20
TENSILE MODULUS (psi)	350,000 - 460,000	350,000 - 435,000	350,000 - 460,000	350,000 - 460,000	350,000 - 435,000	350,000 - 450,000	350,000 - 460,000	430,000
FLEXURAL STRENGTH (psi)	12,500 - 17,000	12,500 - 15,000	12,500 - 17,000	12,500 - 17,000	12,500 - 13,000	12,500 - 15,000	12,500 - 15,500	13,000
FLEXURAL MODULUS (psi)	330,000 - 500,000	350,000 - 450,000	330,000 - 450,000	330,000 - 450,000	350,000 - 450,000	420,000	430,000	330,000
COEFFICIENT OF FRICTION	.26 - .42 (Dry vs. Steel)	.12 - .19 (Dry vs. Steel)	.22 - .42 (Dry vs. Steel)	.36 - .42 (Dry vs. Steel)	.17 - .19 (Dry vs. Steel)	.13 - .20 (Dry vs. Steel)	.08 - .14 (Dry vs. Steel)	.14 (Dry vs. Steel)
24 HOUR H ₂ O (%)	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	0.6 - 1.2	.20 - .50	0.30	0.5
EQUILIBRIUM H ₂ O (%)	5 - 6	4 - 5	5 - 6	1.25 - 5	1.0 - 5	1.0 - 5	1.2 - 5	4
HARDNESS (Scale D)	78 - 83	74 - 78	78 - 83	80	80	80 - 84	80 - 84	79 - 81
COEFFICIENT OF THERMAL EXPANSION (in./in./f)	5.5 x 10 (-5)	5.5 x 10 (-5)	5.5 x 10 (-5)	5.5 x 10 (-5)	5.5 x 10 (-5)	5.5 x 10 (-5)	5.5 x 10 (-5)	5.5 x 10 (-5)
CONTINUOUS OPERATING TEMP (°F)	200 - 250	200 - 250	200 - 250	200 - 250	200 - 250	200 - 250	200 - 250	240 - 255

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