

PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.15	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,500 - 12,500	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	15,000	PSI
Elongation	ASTM D 638	30-40	%
Tensile Modulus	ASTM D 638	460,000	PSI
Notched Izod Impact	ASTM D 256	1.83-2.74	Ft. lbs./in
Flexural Strength	ASTM D 790	17,000	PSI
Flexural Modulus	ASTM D 790	330,000	PSI
Coefficient of Friction		.25	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.5	%
Water Absorption - Equilibrium		1-4	%
Hardness		80	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 250	Degrees F

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, whether alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products. For most recent technical information, phone in USA or in Canada.

# Redco™ Nylon Natural Oil

## Technical Data Sheet



PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.14	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,000	PSI
Compressive Strength @ 10% Deflection	ASTM D 638	14,000-15,000	PSI
Elongation	ASTM D 638	35-40	%
Tensile Modulus	ASTM D 638	435,000	PSI
Notched Izod Impact	ASTM D 256	.74-1.2	Ft. lbs./in
Flexural Strength	ASTM D 790	13,000	PSI
Flexural Modulus	ASTM D 790	350,000	PSI
Coefficient of Friction		.17-19	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.3	%
Water Absorption - Equilibrium		1-2.8	%
Hardness		80-82	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 250	Degrees F

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# Redco™ Nylon Blue

## Technical Data Sheet



PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.15	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,000 - 12,500	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	15,000	PSI
Elongation	ASTM D 638	20-40	%
Tensile Modulus	ASTM D 638	465,000	PSI
Notched Izod Impact	ASTM D 256	1.83-2.74	Ft. lbs./in
Flexural Strength	ASTM D 790	17,000	PSI
Flexural Modulus	ASTM D 790	480,000	PSI
Coefficient of Friction		.36-.72	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.5	%
Water Absorption - Equilibrium		2-5.5	%
Hardness		80-84	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 275	Degrees F

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# Redco™ Nylon MD-OIL

## Technical Data Sheet



PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.15	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,000 - 12,500	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	14,500	PSI
Elongation	ASTM D 638	30-45	%
Tensile Modulus	ASTM D 638	450,000	PSI
Notched Izod Impact	ASTM D 256	.86-1.36	Ft. lbs./in
Flexural Strength	ASTM D 790	15,000	PSI
Flexural Modulus	ASTM D 790	420,000	PSI
Coefficient of Friction		.13-.20	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.3	%
Water Absorption - Equilibrium		1-2.5	%
Hardness		80-84	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 250	Degrees F

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PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.15	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,500 - 12,500	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	15,000	PSI
Elongation	ASTM D 638	30-40	%
Tensile Modulus	ASTM D 638	460,000	PSI
Notched Izod Impact	ASTM D 256	.74-1.2	Ft. lbs./in
Flexural Strength	ASTM D 790	17,000	PSI
Flexural Modulus	ASTM D 790	330,000	PSI
Coefficient of Friction		.25-.30	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.5	%
Water Absorption - Equilibrium		1-4	%
Hardness		80	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 250	Degrees F

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PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.15	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,000	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	14,000-15,000	PSI
Elongation	ASTM D 638	35-40	%
Tensile Modulus	ASTM D 638	435,000	PSI
Notched Izod Impact	ASTM D 256	1.2-1.8	Ft. lbs./in
Flexural Strength	ASTM D 790	13,000	PSI
Flexural Modulus	ASTM D 790	350,000	PSI
Coefficient of Friction		.17-19	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.3	%
Water Absorption - Equilibrium		1-2.8	%
Hardness		80-82	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5x10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 250	Degrees F

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PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.13	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	10,000	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	12,000	PSI
Elongation	ASTM D 638	20	%
Tensile Modulus	ASTM D 638	430,000	PSI
Notched Izod Impact	ASTM D 256	.74-1.2	Ft. lbs./in
Flexural Strength	ASTM D 790	13,000	PSI
Flexural Modulus	ASTM D 790	330,000	PSI
Coefficient of Friction		.14	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.5	%
Water Absorption - Equilibrium		4	%
Hardness		80-82	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 255	Degrees F

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PROPERTIES	TEST METHOD	VALUE	UNIT
Specific Gravity	ASTM D 792	1.13	g/mc <sup>3</sup>
Tensile Strength	ASTM D 638	9,000-10,000	PSI
Compressive Strength @ 10% Deflection	ASTM D 695	14,000-15,000	PSI
Elongation	ASTM D 638	20-40	%
Tensile Modulus	ASTM D 638	460,000	PSI
Notched Izod Impact	ASTM D 256	.74-1.2	Ft. lbs./in
Flexural Strength	ASTM D 790	14,500	PSI
Flexural Modulus	ASTM D 790	430,000	PSI
Coefficient of Friction		.10-.14	Dry vs Steel
Water Absorption - 24 hr	ASTM D 570	.5	%
Water Absorption - Equilibrium		1-3.5	%
Hardness		80-84	Scale D
Coefficient of Thermal Expansion	ASTM D 696	5.5 x 10 <sup>-5</sup>	in./in./F
Continous Operating Temp		-40 to 280	Degrees F

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