

## Material Properties: Wear Bands



Standard Series - Series 1900 (VN 9400)  
Cross-sectional tolerances:  $\pm 0.002$ "



Ultra Precision "CoolBlue" - Series 8000 (VN9800)  
Cross-sectional tolerances:  $\pm 0.001$ "



Ultra Precision "No Swell" - Series 5000 (VN9150)  
Cross-sectional tolerances:  $\pm 0.001$ "

	V-100	VN9500	VN9080	VN9400	VN9800-TFE	VN9800	VN9900	VN9100	VN9150
<b>Property</b>	Fabric Reinforced Resin	Composite Compound	Nylon Compound	Nylon Compound	Nylon Compound	Nylon Compound	Nylon Compound	Composite Compound	Composite Compound
Hardness, Durometer, Points	M100	R120	R120	R120	R119	R120	R119	R125	R126
Specific Gravity	1.25	1.41	1.39	1.49	1.49	1.49	1.49	1.44	1.53
Tensile Strength, psi	8,000	8,800	27,000	25,000	20,000	22,000	20,000	28,000	36,000
Tensile Elongation, %	N/A	15	3-4	2.5	3-4	2.5	3-4	1.4	2
Compressive Strength, psi	50,000	5,200	22,700	23,000	19,000	24,000	19,000	24,000	36,000
Flexural Strength, psi	20,000	14,100	38,000	37,500	31,100	33,000	31,100	34,000	50,000
Flexural Modulus, x1000psi	N/A	375	1,400	1,400	1,200	1,250	1,200	1,900	2,000
Deflection Temp. °F at 264 psi	N/A	230	480	400	390	400	390	540	540
Water Absorption, 24 hours, %	0.1	0.22	0.7	1.2	0.7	1.2	0.7	0.23	0.23
Wear Factor	N/A	65	80	75	40	55	18	20	75
Coefficient of Friction - Static	N/A	0.14	0.26	0.24	0.15	0.22	0.20	0.14	0.26
Coefficient of Friction - Dynamic	0.12	0.21	0.32	0.31	0.18	0.27	0.25	0.18	0.33
Coefficient of Linear thermal Expansion, in/in/F x 10-5	9	4.70	2.00	1.30	1.80	1.30	1.80	2.00	1.70

Ultra Precision "No Swell" also available in Series 6000 (VN9100) and Series 7000 (VN9500)

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