



SEAL SOURCE INC.
HYDRAULIC SEALING COMPONENTS SPECIALISTS

HIGH PERFORMANCE GUIDE RINGS



HIGH PERFORMANCE GUIDE RINGS are finished machined to a thickness tolerance of $\pm .001$ " unless otherwise specified. The state-of-the-art process and continuous improvement, generally keep the process Cpk's above 3.5. This provides better control of the extrusion gap and reduction of the apparatus or cylinder bending loads. High performance guide rings are THE choice for demanding applications.

Key Features

- Best Compressive and Tensile strength on the market for "Standard" Wear Rings in the Nylon Family.
- 40% glass filled, custom compounded, Engineered Nylon, with Proprietary internal Lubricant added for wear resistance and lowers friction.
- Internal Lubricant that is NOT PTFE, increased wear resistance and in compliance with PFAS legislation.
- 0.125 cross section, scarf cut.
- Ultra Precision $\pm .001$ / $\pm .001$ Cross Section Tolerances.
- Distinctive royal blue color.

(503)-281-0020 • info@sealsourceinc.com
16027 NE Cameron blvd. • Portland • Oregon • 97230

www.sealsourceinc.com



SEAL SOURCE INC.
HYDRAULIC SEALING COMPONENTS SPECIALISTS

HIGH PERFORMANCE GUIDE RINGS



Compound comparison

Nylon 6 Glass Fiber Reinforced (40%), Heat Stabilized

Property	Test Method	Units	Regular Nylon Value	High Performance Nylon Value
Mechanical				
Tensile Strength	ASTM D638	PSI	24,500	28,000
Tensile Elongation	ASTM D638	%	2.5	2.5
Tensile Modulus	ASTM D638	PSI	1,900,000	1,650,000
Flexural Strength	ASTM D790	PSI	38,000	33,000
Flexural Modulus	ASTM D790	PSI	1,600,000	1,650,000
Compressive Strength*	ASTM D695	PSI	24,000	28,000
Impact Strength				
Notched 1/8"	ASTM D256	J/m (ft-lb/in)	133 (2.5)	101 (1.9)
Unnotched 1/8"	ASTM D256	J/m (ft-lb/in)	1270 (24)	744 (14.5)
Hardness, Rockwell	ASTM D785	R	120	120
PHYSICAL PROPERTIES				
Specific Gravity	ASTM D792		1.46	1.45
Water Absorption				
24 hrs. @ 73 F (23 C)	ASTM D570	%	1	1
Coefficient of Friction (Dynamic)			0.45	0.23
THERMAL PROPERTIES				
Deflection Temperature				
@264 psi (1.8 Mpa)	ASTM D648	C (F)	204 (400)	204 (400)
@66 psi (0.45Mpa)	ASTM D648	C (F)	210 (410)	210 (410)
Coefficient of Linear				
Thermal Expansion	ASTM D696	in/in/F	0.000015	0.000015
Shelf Life			10 years	10 years
Service Temperature Range		Degrees F	-40F to + 275F	-40F to + 275F
Color			BLACK	ROYAL BLUE

(503)-281-0020 • info@sealsourceinc.com
16027 NE Cameron blvd. • Portland • Oregon • 97230

www.sealsourceinc.com