



Mobile inPHorm Design Analysis

Compound Selection

Compound No.: N0497-70
Durometer: 70
Polymer Family: Nitrile
Uses: Fuel Applications, SAE J120R1 CL 2, UL Listed
Low Temp: -37°C
High Temp: 100°C
Color: BLACK

Gland Design - Radial Static

Series: Design Groove For Me
Size: Design Groove For Me
Application: Male Static Seal
Unit of Measure: mm

Design Groove For Me O-Ring Dimensions (mm)

	Nominal	+/-tol
Inner Diameter(ID)	9	0,13
Cross Section(W)	1,5	0,08

Male Static Seal Suggested Gland Dimensions

	Nominal	+tol	-tol
Groove Diameter:	9,23	0,00	0,05
Groove Width:	2,03	0,13	0,00
Piston Diameter:	11,36	0,00	0,03
Bore Diameter:	11,42	0,05	0,00

Resulting Tolerance Stackups

	Min	Nom	Max	Ideal
Stretch	0,55%	2,56%	4,06%	0-5%
Squeeze	17,66%	25,87%	30,24%	22-32%
Volume Fill	63,82%	80,85%	91,49%	60-90%
Diametral Clearance	0,06	0,06	0,14	> 0

Selected Material: N0497-70

DANGER: FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF SEALS OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This software provides product options for your further investigation. Before using any product, it is important that you analyze all aspects of your application and review the information concerning the product in the current product catalog. Depending on your application, further analysis and testing may be necessary before a suitable product can be selected. Parker shall not be liable for any incidental, consequential or special damages that arise from the use of any product or this software.

Note: inPHorm size calculations conform to the standard O-ring sizes per AS 568A as shown in Table B6 of the on-line REFERENCE GUIDE (Parker Catalog ORD5700). The 5 dash series sizes are non-standard and have been created to special tooling specifications. The dimensions may vary due to materials with unusual shrinkage.

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