High-Performance Seals

Parco 5323-70 EPDM Seals

Need 70-Durometer NSF 61 EPDM O-rings Tomorrow?

Parco is committed to being the leading supplier of EPDM O-rings for NSF/ANSI Standard 61 (NSF 61). That standard sets limits for the amount of chemicals permitted to seep into drinking water. Parco's low-cost, general-purpose, peroxide-cured 5323-70 EPDM compound is certified to NSF 61. Compound 5323-70 meets the Federal Drug Administration (FDA) standard requirements for food-handling applications.

We've doubled our inventory, cut our prices 15 percent, and reduced or minimum order to about $5. So when you need peroxide-cured EPDM O-rings that meet NSF 61, you no longer have to check more than one source for available inventory and competitive prices. Make Parco your first choice for NSF 61 O-rings.

5323-70 Meets Your Needs

1. Outstanding Resistance to Compression Set

Parco seals made from peroxide-cured 5323-70 have excellent resistance to compression set. After testing 5323-70 for 22 hours at 257°F, it had a compression set of only 13 percent. At 13 percent, 5323-70 significantly outperforms similar sulfur cured EPDM compounds. 5323-70's excellent compression set allows it to better maintain its elastomeric properties and original thickness, preserving seal integrity.

2. Excellent Resistance to Chloraminated Water

Parco's peroxide-cured 5323-70 compound has superior resistance to volume swell in chloraminated water applications. After testing for 70 hours at 212°F in chloraminated water, 5323-70 seals experienced volume swell of one percent. That low volume swell makes seals made from peroxide-cured 5323-70 substantially better than similar sulfur-cured compounds. Parco recommends its 5323-70 compound for chloraminated or chlorinated applications such as faucets, hose bibs, and other residential plumbing fixtures.

3. Exceptional Prices and Inventory

Parco's 5323-70 prices are the lowest in the industry. We work with the best suppliers, buy in large volumes, and sell in standard quantity bags. Those features allow us to provide you with 5323-70 O-rings at great prices. Additionally, we carry over 10 million pieces of 5323-70. And we stock all 369 standard sizes. If we receive your order before 2:30 p.m. Pacific time, you can receive your parts as soon as the next day.

5323-70

Key Features

Parco's 5323-70 EPDM seals are ideal for use in chloraminated water applications. Key features include:

- **NSF 61 Listed:**
  Parco 5323-70 seals are approved for materials used in drinking water service (listed for maximum exposure of seal material 1.3in²/liter of commercial hot water at 180°F; listing includes domestic hot and cold water).
- **FDA Conforming:**
  Parco 5323-70 seals conform to FCDA standard 177.2600, which provides approval for repeated use in food handling equipment.
- **Outstanding resistance to compression set:**
  Parco 5323-70 peroxide-cured seals had a compression set of only 13 percent after 22 hours at 257°F.
- **Excellent resistance to chloraminated water:**
  Parco 5323-70 seals had a volume swell of 1 percent after 70 hours at 212°F in chlorminated water.
- **Wide range of service temperatures:**
  Parco 5323-70 seals are suitable for applications ranging from -50 to +250°F.

Chemical Resistance

USE WITH	DO NOT USE WITH
Acetone	Automatic Transmission Fluid
Automotive Brake Fluid	Gasoline
Skydrol	Military Aircraft Hydraulic Fluid
Steam	
Water	

Typical Values for Compound 5323-70
General-purpose 70-durometer, NSF 61 listed EPDM

Section of Spec.	Physical Property	Requirement[1]	Typical Value	ASTM[2] Test Method
	Original Properties			
	Hardness, Shore A	70 ± 5	68	D2240
	Tensile strength, MPa (psi), min.	14.0(2031)	14.1(2038)	D412
Z1	Ultimate elongation, pct., min.	150	267	D412
	Heat Aging			
Z2	**70 hours at 125°C (257°F)**			D573
	Hardness change, pts., Shore A, max.	10	3	
	Tensile strength change, pct., max.	-20	-19	
	Ultimate elongation change, pct., max.	-40	-18	
	Compression Set, Plied			D395
	pct. of original deflection, max.			Method B
B35	22 hours at 125°C (257°F)	70	13	
	Ozone Resistance			D1171
C32	Exposure Method B	Pass	Pass	
	Fluid Aging, Water			
EA14	**70 hours at 100°C (212°F)**			D471
	Volume change, pct.	±5	1	
	Low Temperature Property			
F19	Nonbrittle after 3 minutes -55°C	Pass	Pass	D2137
	Tear Resistance			
G21	Die C, kN/m, min.	26	28	D624

[1]Compound 5323-70 meets the requirements shown above for ASTM D2000 M4CA714 B35 B44 C32 EA14 F19 G21 Z1 Z2.
[2]ASTM is the acronym for the American Society for Testing and Materials. [3]IRM is the acronym for Industry Reference Material.
Source: Parco Test Report 8448A and R & D data.

Parco

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