

# CHO-SEAL® L6303 & 6750

## Cost-Effective Low-Durometer EMI Shielding Chemically Resistant Fluorosilicone Elastomer

[CHO-SEAL L6303](#) is a low durometer, nickel graphite filled fluorosilicone moderate EMI shielding material. CHO-SEAL L6303's higher temperature capability and chemical resistance makes it a good choice for environmental sealing and shielding. As an electrically conductive fluorosilicone elastomer, it delivers excellent EMI shielding performance up to 100 dB as well as providing environmental sealing from dust, moisture, and even challenging Ingress Protection (IP) ratings. The fluorosilicone binder provides additional fluid resistance to harsh fluids and chemicals such as machining oils, hydraulic fluids and various fuels. Designed for flange finishes requiring "bite-through" to ensure strong electrical contact, CHO-SEAL L6303 offers good chemical resistance, durability, and flexibility, making it an ideal choice for aerospace, defense, and industrial electronics exposed to harsh conditions.

[CHO-SEAL 6750](#) is a softer molded only version of CHO-SEAL L6303 that is made from the same nickel graphite filler in a silicone binder. CHO-SEAL 6750 it continues to provide the same shielding effectiveness and fluid resistance performance as the market leading CHO-SEAL L6303 - but with a typical hardness of 53 Shore A. Available in sheet form and custom molded solutions.

### Product Features

- Resistance to harsh chemicals
- Low compression force
- Cost effective EMI shielding solution
- Higher temperature compatibility
- Can be supplied with an electrically conductive pressure sensitive acrylic adhesive (PSA)

### Typical Applications

- Military electronics housings
- Aerospace modules
- Connector interface seals
- Telecommunications equipment



# CHO-SEAL L6303 & 6750 PRODUCT INFORMATION

Typical Properties <sup>†</sup>		L6303	6750	Test Methods	
Physical	Molded (M) or Extruded (E)	M/E	M	--	
	Conductive Filler	Ni/C	Ni/C	--	
	Elastomer Binder	Fluorosilicone	Fluorosilicone	--	
	Type (Ref. MIL-DTL-83528)	Not Applicable	Not Applicable	--	
	Volume Resistivity, ohm-cm, max., without pressure sensitive adhesive	0.100	0.050	CEPS-0002 <sup>(C)</sup> (Q/C)	
		Not Applicable	Not Applicable	MIL-DTL-83528 (Q/C)	
	Hardness, Shore A	65 ±10	53 ±5	ASTM D2240 (Q/C)	
	Specific Gravity	2.20 ±0.25	2.03 ± 0.25	ASTM D792 (Q/C)	
	Tensile Strength, psi (MPa), min.	150 (1.03)	90 (0.62)	ASTM D412 (Q/C)	
	Elongation, % min. or % min./max.	60	90	ASTM D412 (Q/C)	
Thermal	Tear Strength, lb/in. (kN/m), min.	35 (6.13)	25 (4.37)	ASTM D624 (Q)	
	Compression Set, 70 hrs at 100°C, % max. <sup>(A)</sup>	25	25	ASTM D395, Method B (Q)	
	Low Temperature Flex TR10, °C, min.	-45	-65	ASTM D1329 (Q)	
	Maximum Continuous Use Temperature, °C <sup>(B)</sup>	150	200	--	
	Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa)	0.8	--	ASTM D5470	
Electrical	Shielding Effectiveness, dB, min.				
	200 kHz (H Field)	Not Tested	55		
	100 MHz (E Field)	100	129		
	500 MHz (E Field)	100	100	MIL-DTL-83528 Para. 4.5.12 (Q)	
	2 GHz (Plane Wave)	100	115		
	10 GHz (Plane Wave)	100	117		
	40 GHz (Plane Wave)	Not Tested	Not Tested		
	Electrical Stability, ohm-cm, max.	Heat Aging <sup>(E)</sup>	0.250	--	CEPS-0002 <sup>(C)</sup> (Q)
			Not Applicable	Not Applicable	MIL-DTL-83528 Para. 4.5.15 (Q/C)
		Resistance During Vibration	Not Applicable	Not Applicable	MIL-DTL-83528 Para. 4.5.13 (Q)
Resistance After Vibration		Not Applicable	Not Applicable	MIL-DTL-83528 Para. 4.5.13 (Q)	
	Post Tensile Set Volume Resistivity	Not Applicable	Not Applicable	MIL-DTL-83528 Para. 4.5.9 (Q/C)	
Regulatory	EMP Survivability, kA per in. perimeter	Not Applicable	Not Applicable	MIL-DTL-83528 Para. 4.5.16 (Q)	
	RoHS Compliant	Yes	Yes	--	
	UL 94 Flammability Rating	Not Tested	Not Tested	UL 94	
	Outgassing, % TML (% CVCM)	--	0.49 (0.02)	ASTM E595	

Note A: Compression set is expressed as a percentage of deflection per ASTM D395 Method B, at 25% deflection. To determine percent recovery, subtract 0.25 of the stated compression set value from 100%. For example, in the case of 30% compression set, recovery is 92.5%.

Note B: Where two values are shown, the first represents maximum operating temperature for conformance to MIL-DTL-83528 (which requires Group A life testing at 1.25 time maximum operating temperature) and the second value represents the practical limit for exposure up to 1000 hrs. (compressed between flanges 7-10%). Single values conform to both definitions.

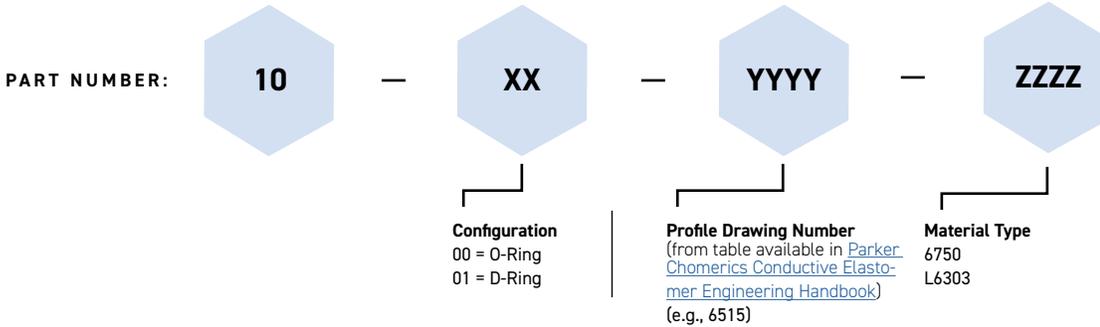
Note C: Copies of CEPS-0002, CHO-TP08 and CHO-TP09 are available from Parker Chomerics. Contact Applications Engineering.

Note E: Heat aging condition: 150°C for 48 hrs.

# CHO-SEAL L6303 & 6750 ORDERING INFORMATION

## Part Numbering for MOLDED D- AND O-RINGS

Custom options are available for both sheets and die cut parts



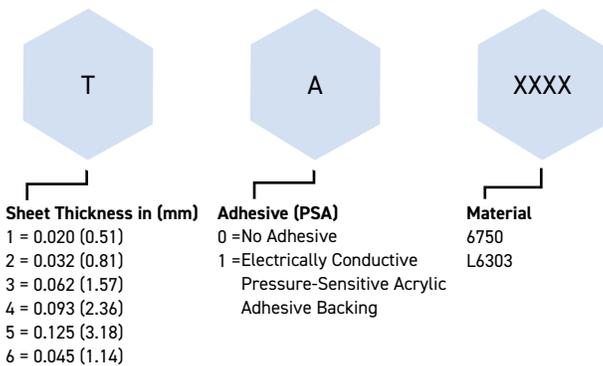
Information on Table 6-7 for standard Molded O-Ring parts is available in the [Conductive Elastomer Engineering Handbook](#). The handbook references Table 6-6 and has overall tolerances on cross-section and inner diameter. Access it at [parker.com/chomerics](http://parker.com/chomerics).

## Part Numbering for Sheet Stock

STANDARD SHEET STOCK SIZE							
AVAILABILITY BY THICKNESS							
Part Number*	Sheet Size Inches (cm)	0.020 ±0.004 (0.51 ±0.10)	0.032 ±0.005 (0.81 ±0.13)	0.045 ±0.006 (1.14 ±0.15)	0.062 ±0.007 (1.57±0.18)	0.093 ±0.010 (2.36 ±0.25)	0.125 ±0.010 (3.18 ±0.25)
40-TA-1010-XXXX	10 x 10 (25.4 x 25.4)	X	X	X	X	X	X
40-TA-1015-XXXX	10 x 15 (25.4 x 38.1)	X	X	X	X	X	X
40-TA-1020-XXXX	10 x 20 (25.4 x 50.8)	X	X	X	X	X	X
40-TA-2020-XXXX	20 x 20 (50.8 x 50.8)	NA	X	X	X	X	X

X = Available NA = Not Available  
\*TA refers to thickness and adhesive options.  
For sizes other than those shown, change 5th through 8th digits.

## Thickness and Adhesive Option Codes



Die-cut part tolerance table is available in the [Conductive Elastomer Engineering Handbook](#). Table 6-2 and has overall tolerances on flat die-cut gaskets, hole diameter, and thickness. Access it at [parker.com/chomerics](http://parker.com/chomerics).

## Additional Seal & Gasket Types Available

- Waveguide gaskets
- Connector flange gaskets
- Jam nut seals
- Interfacial seals
- Reinforced solutions
- Overmolded solutions
- Co-extrusion solutions

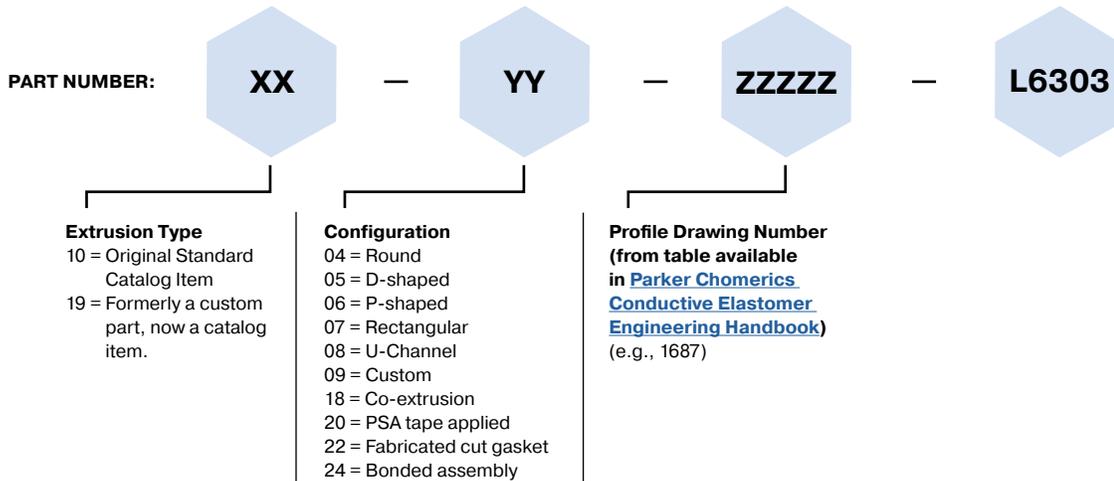
See [Conductive Elastomer Engineering Handbook](#) for more information.

# CHO-SEAL® L6303 EXTRUDED ORDERING

## Part Numbering for EXTRUDED PRODUCTS - Available for CHO-SEAL L6303 ONLY

Custom Profiles Available

Example: 10-04-1687-L6303



Typical minimum contiguous extrusion length is 25 feet (7.6 m). Minimum contiguous lengths are contingent on part cross section and material. If specific minimum lengths are requirements, please contact customer service.



Parker Hannifin Corporation  
**Chomerics Division**

77 Dragon Court  
Woburn, MA 01801  
Phone 781 935 4850  
Fax 781 933 4318  
chomailbox@parker.com  
[parker.com/chomerics](http://parker.com/chomerics)

CHODS1209 January 2026

©2026 Parker Hannifin Corporation



We're Here to Help

Visit [parker.com/chomerics](http://parker.com/chomerics) to:

- [Request a Free Sample](#)
- [Talk to an Expert](#)
- [Get a Quote](#)
- [Find Where to Buy](#)

