GLOBAL O-RING and SEAL
ALL-AROUND BETTER

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O-Ring Compound C70 Data Sheet

Chloroprene Rubber (CR)
70 Durometer, Black

General Information:
Chloroprene (CR) is a multi-purposed elastomer which yields a balanced combination of properties. It performs well in contact with oils and many chemicals and has good resistance to sun, ozone and weather. It also displays outstanding toughness and good resistance to fire.

Cure System: Sulfur-cured

Temperature Range:
-40°C (-40°F) to 100°C (212°F)

Attributes:
- Color: Black
- 70±5 Shore A durometer
- Shelf-life: 15 years

Performs Well In:

- Refrigerants
- Ammonia
- Water
- Silicone grease and oils
- High aniline point mineral oil

Doesn't Perform Well In:

- Aromatic hydrocarbons
- Ketones
- Esters
- Ethers
- Strong oxidizing acids
- Chlorinated hydrocarbons

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TEST REPORT FOR O-RING COMPOUND C70

MATERIAL: NEOPRENE
DUROMETER: 70
COLOR: BLACK
ASTM* D2000 M2BC710 A14 C12 F17 Z1 Z2

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	70±5	70	D2240-04
	Tensile Strength, psi (MPa)	1450 (min.)	2269 (15.65)	D412-98a
	Elongation, percent	250 (min.)	282	D412-98a
	Modulus at 100%, psi (MPa)		652 (4.50)	D412-98a
	Specific Gravity (g/cm^3)		1.388	
A14	**HEAT AGE**			D573-04
	70 hours at 100°C (212°F)			
	Hardness Change, points	+15 (max.)	+9	
	Tensile Strength Change, percent	-15 (max.)	-1	
	Elongation Change, percent	-40 (max.)	-9	
	Weight Change, percent		-2.8	
Z1	**COMPRESSION SET**			D395-03, Method B
	70 hours at 100°C (212°F), percent	35 (button) (max.)	33.2	
C12	**OZONE RESISTANCE**			D1171-99
	50 pphm, 70 hours at 40°C (104°F)	No crack	Pass	
F17	**LOW-TEMPERATURE BRITTLENESS POINT**			D2137-94, Method A
	3 minutes at -40°C (-40°F)			
	Sample type: T-50			
	Coolant: Methanol			
	Brittleness temperature to nearest 1°C/F	No crack	Pass	

*American Society for Testing and Materials