Compound

25715

TETRAFLUOROETHYLENE - PROPYLENE - 75 DURO BLACK COLOR

PRODUCT DATA SHEET

Compound 25715 is a 75 durometer black colored TFEP copolymer elastomer, it is specifically formulated to have improved resistance in basic enviroments. It is also remommended for use in a variety of other chemicals, such as steam,water,alcohols and petroleum based oils

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	579	psi	4.0	MPa
Tensile Strength	1452	psi	10.0	MPa
Ultimate Elongation	238	%		
Hardness, Shore A	77	Durometer		
Specific Gravity	1.72	grams/cc		
Brittleness Temperature	-3	°F	-19	°C
Tear Resistance, Die B	178	ppi	31.2	kN/m
Tear Resistance, Die C	137	ppi	24.0	kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C)	24.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 1.5 %
Change - Elongation	- 0.8 %
Change - Hardness, Shore A	+ 3

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 0.9 %
Change - Elongation	+ 15.1 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 5.7 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.8 %
Change - Elongation	+ 2.5 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.6 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 3.2 %
Change - Elongation	+ 1.3 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 5.7 %

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AMSOIL 2000: 3500 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 16.1 %
Change - Elongation	+ 2.1 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.8 %

ATF: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 8.3 %
Change - Elongation	+ 4.2 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 3.3 %

SODIUM HYDROXIDE: Aged 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 1.6 %
Change - Elongation	+ 2.1 %
Change - Hardness, Shore A	0
Change - Volume	- 0.3 %

SHELL HELIX ULTRA: 3500 hrs @ 302°F (150°C	
Change - Tensile Strength	- 22.0 %
Change - Elongation	+ 11.8 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 3.6 %

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