

The O-Ring Store LLC



We make getting o-rings easy!

TFE/P FEPM 83 DUROMETER DATA SHEET FOR COMPOUND A75

Compound Features:

- Excellent continuous heat resistance.
- Excellent resistance to acids and bases.
- High electrical resistivity.
- Excellent oil resistance.
- Excellent resistance to amines.
- Moderate compression set resistance.
- Good abrasion and wear resistance.
- Moderate short-term resilience.
- Excellent permeation resistance.

Compound Limitations:

- Poor resistance to automotive and aircraft brake fluids.
- Poor resistance to ketones (MEK).
- Poor resistance to low molecular esters and ethers.
- Poor resistance to acetone and ethyl acetate.

Temperature Range:

0°F to +400°F (-17°C to +204°C)

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Durometer	-	D2240	Shore A	75 ± 5	79
Tensile Strength		D1414	Psi	1600 min	1823
Ultimate Elongation		D1414	%	150 min	203
Specific Gravity		D297	g/cc	Report	1.52

TR-10 LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Temperature Retraction	-	ASTM D1329 TR-10	°F	+39°F Or Colder	+36°F

LOW TEMPERATURE BRITTLE POINT					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Brittle Point	-	ASTM D1327	°F	-31°F Or Colder	-38°F

HEAT AGED					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Durometer Change	-	ASTM D573 70 Hours @ 482°F	Shore A	0 to + 10	0
Tensile Strength Change			%	-25 Max	+8
Elongation Resistance Change			%	-25 Max	+30
Weight Change			%	± 5	-2.4

FLUID RESISTANCE - 50% SODIUM HYDROXIDE IN WATER IMMERSION					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Durometer Change	-	ASTM D471 & D1414 22 Hours @ 212°F	Shore A	± 5	+2
Tensile Strength Change			%	-20 Max	+6
Elongation Resistance Change			%	-15 Max	-5
Volume Change			%	0 to +5	0

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate the material prior to use.

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FLUID RESISTANCE - AMS 3023					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Durometer Change	-	ASTM D471 & D1414 70 Hours @ 392°F	Shore A	-25 Max	-9
Tensile Strength Change			%	-30 Max	-16
Elongation Resistance Change			%	-20 Max	-11
Volume Change			%	0 to +30	+22.6

FLUID RESISTANCE – IRM 903					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Durometer Change	-	ASTM D471 & D1414 70 Hours @ 302°F	Shore A	0 to -12	-3
Tensile Strength Change			%	-25 Max	-12
Elongation Resistance Change			%	-20 Max	+8
Volume Change			%	0 to +20	+12.6

FLUID RESISTANCE – AS1241 TYPE IV					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Durometer Change	-	ASTM D471 & D1414 70 Hours @ 212°F	Shore A	-20 Max	-9
Tensile Strength Change			%	-40 Max	-34
Elongation Resistance Change			%	-20 Max	0
Volume Change			%	0 to +30	+26.1

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	AMS 7255C Specification	A75 Compound Property
Permanent Set (22 Hrs @ 347°F)	-	ASTM D395 B & D1414	%	35 Max	17.1
Permanent Set (168 Hrs @ 347°F)			%	50 Max	45.6
Permanent Set (22 Hrs @ 392°F)			%	35 Max	21.1

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