
Cord Compound FFKM75 Data Sheet

FFKM - Perfluoroelastomer
75 Durometer, Black

General Information:

FFKM75 is a fully fluorinated peroxide curable elastomer compound based on a 3M FFKM polymer. This material offers good sealing properties in harsh chemical environments. Along with the broad chemical resistance this compound also has excellent compression set. FFKM75 is designed for services requiring low permeation and high temperature resistance (<220C) while maintaining a good seal. This compound is ideal for wet chemical, fluid handling, cleaning and chemical etching.

Attributes:

- Color: Black
- 75±5 Shore A durometer
- 72.5% Fluorine
- Shelf-life: Unlimited
- Relative Cost: High

Cure System: *Peroxide-cured*

Temperature Range: -6°C (21°F) to 220°C (428°F)

Performs Well In:


- Gasoline
- Alcohol
- Fuel additives
- Acids
- Hydrocarbons
- Water
- Oils
- Oxidation, ozone and radiation
- ...and much more

Doesn't Perform Well In:

- Molten alkali metals
- Gaseous alkali metals
- Halogenated freons/fluids
- Uranium hexafluoride

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FFKM75

	TEST REPORT FOR COMPOUND FFKM75			
	MATERIAL: Perfluoroelastomer (FFKM) DUROMETER: 75 COLOR: BLACK			
SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	TYPICAL PHYSICAL PROPERTIES			
	Press cured 10 minutes at 350°F (177°C)			
	Post cured 8 hours at 480°F (250°C)			
	Tensile Strength		2367 PSI	D-412
	100% Modulus		1253 PSI	D-412
	Ultimate Elongation		150 %	D-412
	Shore A Hardness		75 Pts.	D-2240
	Specific Gravity		2.03 (H20=1)	D-297
	COMPRESSION SET			
	22 hours at 392°F (200°C)			
			9.5 %	D-395
	TYPICAL RHEOLOGICAL PROPERTIES			
	4 minutes at 350°F (177°C)			
	Min torque		0.73 Inch/lbs	D-6204
	Max torque		27.73 Inch/lbs	
	Scorch Ts1		0.33 Minutes	
	Cure Tc90		0.71 Minutes	

*American Society for Testing and Materials