

Greene FKM 772

Fluoroelastomer

Greene, Tweed & Co.

Message:

Greene FKM 772 is a Fluoroelastomer product. It is available in North America.

General Information			
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Durometer Hardness (Shore A)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction ¹			ASTM D1894
vs. Itself - Dynamic	1.1		
vs. Itself - Static	1.2		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	2.41	MPa	
100% Strain	6.38	MPa	
Tensile Strength (Break)	17.2	MPa	ASTM D412
Tensile Elongation (Break)	200	%	ASTM D412
Compression Set ²			ASTM D395
24°C, 70 hr	6.0	%	
175°C, 166 hr	14	%	
200°C, 22 hr	8.0	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (276°C, 70 hr)	-29	%	ASTM D573
Change in Ultimate Elongation in Air (276°C, 70 hr)	8.0	%	ASTM D573
Change in Durometer Hardness in Air (Shore A, 276°C, 70 hr)	-1.0		ASTM D573
Change in Tensile Strength			ASTM D471
23°C, 70 hr, in Reference Oil 300	-12	%	
24°C, 70 hr, in Reference Fuel B	-8.0	%	
175°C, 70 hr, in Stauffer 7700 Fluid	-14	%	
Change in Ultimate Elongation			ASTM D471
23°C, 70 hr, in Reference Oil 300	13	%	

24°C, 70 hr, in Reference Fuel B	-12	%	
175°C, 70 hr, in Stauffer 7700 Fluid	10	%	
Change in Durometer Hardness			ASTM D471
Shore A, 23°C, 70 hr, in Reference Oil 300	-6.0		
Shore A, 24°C, 70 hr, in Reference Fuel B	-1.0		
Shore A, 175°C, 70 hr, in Stauffer 7700 Fluid	-7.0		
Change in Mass (276°C, 70 hr)	-6.0	%	ASTM D471
Change in Volume			ASTM D471
23°C, 70 hr, in Reference Oil 300	15	%	
24°C, 70 hr, in Reference Fuel B	1.6	%	
175°C, 70 hr, in Stauffer 7700 Fluid	15	%	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.2E-4	cm/cm/°C	ASTM E228
Additional Information	Nominal Value	Unit	Test Method
Rubber Classification	FKM		ASTM D1418
TR 10/50	-31	°C	ASTM D1329
NOTE			
1.	Method C		
2.	25% Deflection		

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