

Greene FKM 731

Fluoroelastomer

Greene, Tweed & Co.

Message:

Greene FKM 731 is a Fluoroelastomer product. It is available in North America.

General Information			
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.84	g/cm ³	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78		ASTM D785
Durometer Hardness (Shore A)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction ¹			ASTM D1894
vs. Itself - Dynamic	0.50		
vs. Itself - Static	1.3		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	2.86	MPa	
100% Strain	6.76	MPa	
Tensile Strength (Break)	15.2	MPa	ASTM D412
Tensile Elongation (Break)	190	%	ASTM D412
Tear Strength ²	34.1	kN/m	ASTM D624
Compression Set			
149°C, 70 hr	6.0	%	ASTM D395
150°C, 22 hr	6.0	%	ASTM D395
175°C, 70 hr ³	16	%	ASTM D395
175°C, 70 hr ⁴	24	%	ASTM D395
175°C, 166 hr	24	%	ASTM D395
200°C, 22 hr	9.0	%	ASTM D395
200°C, 22 hr ⁵	10	%	ASTM D395B
200°C, 70 hr	11	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
150°C, 70 hr	-12	%	
276°C, 70 hr	-30	%	
Change in Ultimate Elongation in Air			ASTM D573
150°C, 70 hr	6.0	%	

276°C, 70 hr	16	%	
Change in Durometer Hardness in Air			ASTM D573
150°C, 70 hr	6.0		
276°C, 70 hr	6.0		
Change in Tensile Strength			ASTM D471
100°C, 168 hr, in Actuator Oil	-15	%	
100°C, 168 hr, in SAE 10 Oil	-27	%	
Change in Ultimate Elongation			ASTM D471
100°C, 168 hr, in Actuator Oil	1.2	%	
100°C, 168 hr, in SAE 10 Oil	-9.6	%	
Change in Durometer Hardness			ASTM D471
100°C, 168 hr, in Actuator Oil	-4.0		
100°C, 168 hr, in SAE 10 Oil	-6.0		
Change in Volume			ASTM D471
100°C, 168 hr, in Actuator Oil	3.4	%	
100°C, 168 hr, in SAE 10 OIL	4.4	%	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.1E-4	cm/cm/°C	ASTM E228
NOTE			
1.	Method C		
2.	Die B		
3.	In AMS 3021 Fluid		
4.	In AMS 3021 After 18 Hrs Soak		
5.	In air		

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