

Chemraz 618

Perfluoroelastomer
Greene, Tweed & Co.

Message:
Chemraz 618 is a Perfluoroelastomer product. It is available in North America.

General Information			
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.99	g/cm ³	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D1414
50% Strain	2.55	MPa	
100% Strain	8.79	MPa	
Tensile Strength (Break)	13.3	MPa	ASTM D1414
Tensile Elongation (Break)	130	%	ASTM D1414
Compression Set (230°C, 70 hr)	16	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (290°C, 70 hr)	-6.0	%	ASTM D1414
Change in Ultimate Elongation in Air (290°C, 70 hr)	-3.0	%	ASTM D1414
Change in Durometer Hardness in Air (290°C, 70 hr)	-2.0		ASTM D573
Change in Mass in Air (290°C, 70.0 hr)	-3.0	%	ASTM D1414
Change in Tensile Strength			
25°C, 7 hr, in Reference Fuel B	4.0	%	
124°C, 70 hr, in AS1241 Type IV	-15	%	
175°C, 70 hr, in AMS 3021	4.0	%	
Change in Ultimate Elongation			
25°C, 70 hr, in Reference Fuel B	2.0	%	
124°C, 70 hr, in AS1241 Type IV	2.0	%	
175°C, 70 hr, in AMS 3021	-3.0	%	
Change in Durometer Hardness			ASTM D471
in Reference Fuel B	-1.0		
124°C, 70 hr, in AS1241 Type IV	-3.0		
175°C, 70 hr, in AMS 3021	-1.0		
Change in Volume			

25°C, 70 hr, in Reference Fuel B	0.20	%	
124°C, 70 hr, in AS1241 Type IV	5.0	%	
175°C, 70 hr, in AMS 3021	0.40	%	
Thermal	Nominal Value	Unit	
Service Temperature	-18 to 324	°C	
Rubber Classification	FFKM		ASTM D1418
TR 10/50	-8	°C	ASTM D1329

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