

Greene 209

Acrylonitrile Butadiene Rubber
Greene, Tweed & Co.

Message:

Greene 209 is an Acrylonitrile Butadiene Rubber (NBR) product. It is available in North America.

General Information			
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% Strain)	13.8	MPa	ASTM D412
Tensile Strength (Break)	28.3	MPa	ASTM D412
Tensile Elongation (Break)	97	%	ASTM D412
Compression Set ¹			ASTM D395
100°C, 20 hr	20	%	
100°C, 70 hr	19	%	
149°C, 70 hr	230	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
100°C, 70 hr	0.0	%	
125°C, 70 hr	0.0	%	
149°C, 70 hr	0.20	%	
Change in Ultimate Elongation in Air			ASTM D573
100°C, 70 hr	-5.0	%	
125°C, 70 hr	-5.0	%	
149°C, 70 hr	-5.0	%	
Change in Durometer Hardness in Air			ASTM D573
100°C, 70 hr	0.0		
125°C, 70 hr	1.0		
149°C, 70 hr	1.0		
Change in Tensile Strength			ASTM D471
23°C, 70 hr, in Reference Fuel A (Isooctane)	-5.8	%	
23°C, 70 hr, in Reference Fuel B	-42	%	
100°C, 70 hr, in ASTM #1 Oil	-4.0	%	
100°C, 70 hr, in ASTM #3 Oil	-1.3	%	
125°C, 70 hr, in ASTM #1 Oil	-4.0	%	

125°C, 70 hr, in ASTM #3 Oil	-1.0	%
149°C, 70 hr, in ASTM #1 Oil	-4.0	%
149°C, 70 hr, in ASTM #3 Oil	-1.3	%
149°C, 70 hr, in Diesel Fuel	-20	%
Change in Ultimate Elongation		ASTM D471
23°C, 70 hr, in Reference Fuel A (Isooctane)	-2.4	%
23°C, 70 hr, in Reference Fuel B	-25	%
100°C, 70 hr, in ASTM #1 Oil	-10	%
100°C, 70 hr, in ASTM #3 Oil	3.4	%
125°C, 70 hr, in ASTM #1 Oil	-10	%
125°C, 70 hr, in ASTM #3 Oil	0.0	%
149°C, 1 hr, in ASTM #1 Oil	-10	%
149°C, 70 hr, in ASTM #3 Oil	3.4	%
149°C, 70 hr, in Diesel Fuel	-1.0	%
Change in Durometer Hardness		ASTM D471
23°C, 70 hr, in Reference Fuel A (Isooctane)	0.0	
23°C, 70 hr, in Reference Fuel B	-9.0	
100°C, 70 hr, in ASTM #1 Oil	1.0	
100°C, 70 hr, in ASTM #3 Oil	-7.0	
100°C, 70 hr, in Water	0.0	
125°C, 70 hr, in ASTM #1 Oil	0.0	
125°C, 70 hr, in ASTM #3 Oil	-7.0	
149°C, 70 hr, in ASTM #1 Oil	1.0	
149°C, 70 hr, in ASTM #3 Oil	-7.0	
149°C, 70 hr, in Diesel Fuel	-12	
Change in Volume		ASTM D471
23°C, 70 hr, in Reference Fuel A	0.90	%
23°C, 70 hr, in Reference Fuel B	23	%
100°C, 70 hr, in ASTM Oil #1	1.0	%
100°C, 70 hr, in ASTM Oil #3	15	%
100°C, 70 hr, in Water	2.0	%
125°C, 70 hr, in ASTM Oil #1	1.0	%
125°C, 70 hr, in ASTM Oil #3	12	%
149°C, 70 hr, in ASTM Oil #1	0.50	%
149°C, 70 hr, in ASTM Oil #3	15	%
149°C, 70 hr, in Diesel Fuel	20	%
Thermal	Nominal Value	Unit
Service Temperature	-34 to 149	°C
Rubber Classification ²	HNBR	
NOTE		
1.	25% Deflection	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

