

Greene 160

Acrylonitrile Butadiene Rubber

Greene, Tweed & Co.

Message:

Greene 160 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	1.29	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Durometer Hardness (Shore A)	73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction ¹			ASTM D1894
vs. Itself - Dynamic	0.60		
vs. Itself - Static	1.3		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D1414
50% Strain	2.10	MPa	
100% Strain	5.17	MPa	
Tensile Strength (Break)	16.8	MPa	ASTM D1414
Tensile Elongation (Break)	220	%	ASTM D1414
Compression Set			ASTM D395
100°C, 70 hr ²	35	%	
135°C, 70 hr ³	42	%	
135°C, 70 hr ⁴	47	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			ASTM D471
135°C, 70 hr, in AMS 3020	-24	%	
135°C, 70 hr, in MIL-H-83282	-22	%	
Change in Ultimate Elongation			ASTM D471
135°C, 70 hr, in AMS 3020	-30	%	
135°C, 70 hr, in MIL-H-83282	-37	%	
Change in Durometer Hardness			ASTM D471
135°C, 70 hr, in AMS 3020	-4.0		
135°C, 70 hr, in MIL-H-83282	1.0		
Change in Volume			ASTM D471
135°C, 70 hr, in AMS 3020	11	%	
135°C, 70 hr, in MIL-H-83282	3.0	%	

Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.5E-4	cm/cm/°C	ASTM E228
Additional Information	Nominal Value	Unit	Test Method
Rubber Classification	NBR		ASTM D1418
Tear Strength - Bie B	42.0	kN/m	ASTM D624
TR 10/50			ASTM D1329
in AMS-3020	-49	°C	
in MIL-H-83282	-49	°C	
NOTE			
1.	Method C		
2.	in Air - 25% Deflection		
3.	in MIL-H-83282 - 25% Deflection		
4.	in AMS-3020 - 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

