

NANCAR® 1052M43

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1052M43 is a medium high acrylonitrile butadiene copolymer with good oil resistance. It is a low Mooney version of NANCAR 1052. The low Mooney provides optimum processing property in highly filled or reinforced compounds.

NANCAR® 1052M43 , similar to NANCAR 1052, is an excellent multi-purpose nitrile elastomer. It is particularly recommended for shoes, rolls, transfer molding or extrusion and for frictioning or coating fabrics.

General Information			
Features	Copolymer		
	Low Viscosity		
	Oil Resistant		
Uses	Fabric Coatings		
	Footwear		
	General Purpose		
Forms	Pellets		
Processing Method	Coating		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm ³	
Mooney Viscosity (ML 1+4, 100°C)	43	MU	ASTM D1646
Acrylonitrile Content - Bound	33.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Heat Loss	0.40	%	ASTM D5688
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A ¹	71		
Shore A ²	70		
Shore A ³	69		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
300% Strain ⁴	6.86	MPa	
300% Strain ⁵	8.53	MPa	
300% Strain ⁶	9.12	MPa	
Tensile Strength			ASTM D412
Yield ⁷	26.8	MPa	

Yield ⁸	26.5	MPa	
Yield ⁹	23.8	MPa	
Tensile Elongation			ASTM D412
Break ¹⁰	750	%	
Break ¹¹	690	%	
Break ¹²	650	%	
Tear Strength	61.8	kN/m	ASTM D624
Compression Set ¹³ (100°C, 70 hr)	57	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹⁴ (100°C, 70 hr)	0.0	%	ASTM D865
Change in Ultimate Elongation in Air ¹⁵ (100°C, 70 hr)	-28	%	ASTM D865
Change in Durometer Hardness in Air ¹⁶ (Shore A, 100°C, 70 hr)	5.0		ASTM D865
Change in Tensile Strength ¹⁷			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-5.0	%	
100°C, 70 hr, in ASTM #3 Oil	-18	%	
Change in Ultimate Elongation ¹⁸			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-25	%	
100°C, 70 hr, in ASTM #3 Oil	-19	%	
Change in Durometer Hardness ¹⁹			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	1.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-11		
Change in Volume ²⁰			ASTM D471
100°C, 70 hr, in ASTM Oil #1	0.20	%	
100°C, 70 hr, in ASTM Oil #3	19	%	
NOTE			
1.	Cured for 60.0 min at 150°C		
2.	Cured for 40.0 min at 150°C		
3.	Cured for 20.0 min at 150°C		
4.	Cured for 20.0 min at 150°C		
5.	Cured for 40.0 min at 150°C		
6.	Cured for 60.0 min at 150°C		
7.	Cured for 60.0 min at 150°C		
8.	Cured for 40.0 min at 150°C		
9.	Cured for 20.0 min at 150°C		
10.	Cured for 20.0 min at 150°C		
11.	Cured for 40.0 min at 150°C		
12.	Cured for 60.0 min at 150°C		
13.	Cured for 60.0 min at 150°C		
14.	Cured for 40.0 min at 150°C		
15.	Cured for 40.0 min at 150°C		

16.	Cured for 40.0 min at 150°C
17.	Cured for 40.0 min at 150°C
18.	Cured for 40.0 min at 150°C
19.	Cured for 40.0 min at 150°C
20.	Cured for 40.0 min at 150°C

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