NANCAR® 1052M30

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1052M30 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® 1052M30 , similar to NANCAR ® 1052, is an excellent multi-purpose nitrile elastomer. It is particularly recommended for shoes, 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/cm³	
Mooney Viscosity (ML 1+4, 100°C)	33	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]	72		
Shore A [2]	71		
Shore A [3]	69		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
300% Strain [4]	7.65	MPa	
300% Strain [5]	8.83	MPa	
300% Strain [6]	9.51	MPa	
Tensile Strength			ASTM D412
Yield [7]	25.2	MPa	

Yield [8]	23.8	MPa	
Yield [9]	22.2	MPa	
Tensile Elongation			ASTM D412
Break [10]	740	%	
Break [11]	680	%	
Break [12]	660	%	
Tear Strength	57.9	kN/m	ASTM D624
Compression Set [13] (100°C, 70 hr)	56	%	ASTM D395

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [14] (100°C, 70 hr)	8.0	%	ASTM D865
Change in Ultimate Elongation in Air [15] (100°C, 70 hr)	-26	%	ASTM D865
Change in Durometer Hardness in Air [16] (Shore A, 100°C, 70 hr)	7.0		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	-11	%	
Change in Ultimate Elongation [18]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-25	%	
100°C, 70 hr, in ASTM #3 Oil	-16	%	
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	-14		
Change in Volume [20]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	0.20	%	
100°C, 70 hr, in ASTM Oil #3	21	%	

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

Recommended distributors for this material

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