NANCAR® 1052

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1052 is a medium high acrylonitrile butadiene copolymer with good oil resistance. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions. It has low Mooney viscosity, superior processing characteristics and provides compounds with high elongation. NANCAR® 1052 is an excellent multi-purpose nitrile elastomer. It may be blended with vinyl resins to produce smooth extrusions and nerve-free sheets. Suggested usages include applications in seals, hoses, belts, footwear, molded goods, roll covers and adhesives.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Copolymer
	Good Processability
	High Elongation
	Low Viscosity
	Oil Resistant
Uses	Adhesives
	Belts/Belt Repair
	Footwear
	Gaskets
	Hose
	Seals
	Sheet
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm³	
Mooney Viscosity (ML 1+4, 100°C)	52	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]	69		
Shore A [2]	67		

Shore A [3]	66		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
300% Strain [4]	8.04	MPa	
300% Strain [5]	9.81	MPa	
300% Strain [6]	10.3	MPa	
Tensile Strength			ASTM D412
Yield [7]	26.5	MPa	
Yield [8]	26.1	MPa	
Yield [9]	24.5	MPa	
Tensile Elongation			ASTM D412
Break [10]	680	%	
Break [11]	650	%	
Break [12]	600	%	
Tear Strength	56.9	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)	-4.0	%	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)	4.0		ASTM D865
Change in Tensile Strength [17]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-8.0	%	
100°C, 70 hr, in ASTM #3 Oil	-15	%	
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	-3.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-16		
Change in Volume [20]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	0.80	%	
100°C, 70 hr, in ASTM Oil #3	18	%	

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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