NANCAR® 1053

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1053 is a medium acrylonitrile butadiene copolymer with medium oil resistance. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions. It has low Mooney viscosity, and has superior processing characteristics.
NANCAR® 1053 is recommended for use in applications requiring improved low temperature properties. It provides excellent extrusions and general processing improvement.

General Information			
Additive	Antioxidant		
Features	Antioxidant Copolymer Good Processability Low Viscosity Oil Resistant		
Uses	Low Temperature Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.970	g/cm³	
Mooney Viscosity (ML 1+4, 100°C)	52	MU	ASTM D1646
Acrylonitrile Content - Bound	29.0	%	Internal Method
Stabilizer	Non-staining		
Heat Loss	0.30	%	ASTM D5688
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A [1]	70		
Shore A [2]	69		
Shore A [3]	68		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
300% Strain [4]	8.24	MPa	
300% Strain [5]	9.51	MPa	
300% Strain [6]	10.1	MPa	
Tensile Strength			ASTM D412
Yield [7]	25.5	MPa	
Yield [8]	25.8	MPa	
Yield [9]	25.1	MPa	
Tensile Elongation			ASTM D412

Break [10]	650	%	
Break [11]	610	%	
Break [12]	590	%	
Tear Strength	55.9	kN/m	ASTM D624
Compression Set [13] (100°C, 70 hr)	58	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [14] (100°C, 70 hr)	-7.0	%	ASTM D865
Change in Ultimate Elongation in Air [15] (100°C, 70 hr)	-25	%	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	-9.0	%	
100°C, 70 hr, in ASTM #3 Oil	-32	%	
Change in Ultimate Elongation [18]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-21	%	
100°C, 70 hr, in ASTM #3 Oil	-26	%	
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	-17		
Change in Volume [20]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	2.3	%	
100°C, 70 hr, in ASTM Oil #3	31	%	

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

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

WECHAT