NANCAR® 1041

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1041 is a copolymer of butadiene and acrylonitrile with excellent oil resistance. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions. It cures faster and provides higher modulus and tensile strength.
NANCAR® 1041 provides easy processing. It is recommended for use in hoses, rolls, packings, gaskets, sheets, shoe soles and other mechanical goods requiring high oil resistance.

General Information			
Additive	Antioxidant		
Features	Antioxidant Copolymer Fast Cure Good Processability High Tensile Strength Oil Resistant		
Uses	Footwear Gaskets Hose Sheet		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.00	g/cm³	
Mooney Viscosity			ASTM D1646
ML 1+4, 100°C [1]	100	MU	
ML 1+4, 100°C	82	MU	
Acrylonitrile Content - Bound	41.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Viscosity			ASTM D1646
Minimum	56.0		
Minutes to 35 points rise, t35	35.7	min	
Minutes to 5 points rise, t5	33.3	min	
Heat Loss	0.40	%	ASTM D5688
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 5 sec [2]	75		
Shore A, 5 sec [3]	74		

Shore A, 5 sec [4]	73		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
300% Strain [5]	13.9	MPa	
300% Strain [6]	12.7	MPa	
300% Strain [7]	11.3	MPa	
Tensile Strength			ASTM D412
Yield [8]	26.6	MPa	
Yield [9]	27.3	MPa	
Yield [10]	28.0	MPa	
Tensile Elongation			ASTM D412
Break [11]	500	%	
Break [12]	550	%	
Break [13]	600	%	
Tear Strength	61.0	kN/m	ASTM D624
Compression Set [14] (100°C, 70 hr)	59	%	ASTM D395
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [15] (100°C, 70 hr)	-8.0	%	ASTM D573
Change in Ultimate Elongation in Air [16] (100°C, 70 hr)	-29	%	ASTM D573
Change in Durometer Hardness in Air [17] (Shore A, 100°C, 70 hr)	3.0		ASTM D573
Change in Tensile Strength [18]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-6.0	%	
100°C, 70 hr, in IRM 903 Oil	-11	%	
Change in Ultimate Elongation [19]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-26	%	
100°C, 70 hr, in IRM 903 Oil	-19	%	
Change in Durometer Hardness [20]			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	2.0		
Shore A, 100°C, 70 hr, in IRM 903 Oil	-6.0		
Change in Volume [21]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	-0.90	%	
100°C, 70 hr, in IRM 903 Oil	10	%	

NOTE	
1.	Uncured
2.	CURED @150°C for 60 mins
3.	CURED @150°C for 40 mins
4.	CURED @150°C for 20 mins
5.	CURED @150°C for 60 mins
6.	CURED @150°C for 40 mins
7.	CURED @150°C for 20 mins

8.	CURED @150°C for 60 mins
9.	CURED @150°C for 40 mins
10.	CURED @150°C for 20 mins
11.	CURED @150°C for 60 mins
12.	CURED @150°C for 40 mins
13.	CURED @150°C for 20 mins
14.	CURED @150°C for 60 mins
15.	CURED@150°C × 40 MINUTES
16.	CURED@150°C × 40 MINUTES
17.	CURED@150°C × 40 MINUTES
18.	CURED@150°C × 40 MINUTES
19.	CURED@150°C × 40 MINUTES
20.	CURED@150°C × 40 MINUTES
21.	CURED@150°C × 40 MINUTES

Recommended distributors for this material

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