

NANCAR® 1082

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1082 is a medium high acrylonitrile rubber included with 50 phr of Di(2-ethylhexyl)phthalate (DEHP).

NANCAR® 1082 can be considered as a plasticizer master batch with are used in conjunction with standard NANCAR NBR and other rubbers where the needs demand. It offers outstanding processing characteristics with the advantages of better dispersion, low power consumption and time savings especially for low durometer NBR products.

NANCAR® 1082 is recommended for use in soft rollers, high extending and low durometer items.

General Information			
Features	Dispersible		
	Good Processability		
	Low Hardness		
	Plasticized		
Uses	Rollers		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	45	MU	ASTM D1646
Acrylonitrile Content - Bound	31.5	%	Internal Method
Stabilizer	Non-staining		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ¹ (Shore A)	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (300% Strain)	8.04	MPa	ASTM D412
Tensile Strength ³ (Yield)	13.7	MPa	ASTM D412
Tensile Elongation ⁴ (Break)	500	%	ASTM D412
Compression Set ⁵ (100°C, 70 hr)	30	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁶ (100°C, 70 hr)	-5.0	%	ASTM D865
Change in Ultimate Elongation in Air ⁷ (100°C, 70 hr)	-35	%	ASTM D865
Change in Durometer Hardness in Air ⁸ (Shore A, 100°C, 70 hr)	5.0		ASTM D865
Change in Tensile Strength ⁹			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	14	%	
100°C, 70 hr, in ASTM #3 Oil	13	%	
Change in Ultimate Elongation ¹⁰			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-32	%	
100°C, 70 hr, in ASTM #3 Oil	-22	%	

Change in Durometer Hardness ¹¹		ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	20	
Shore A, 100°C, 70 hr, in ASTM #3 Oil	10	
Change in Volume ¹²		ASTM D471
100°C, 70 hr, in ASTM Oil #1	-22	%
100°C, 70 hr, in ASTM Oil #3	-8.0	%

NOTE	
1.	Cured for 6.00 min at 160°C
2.	Cured for 6.00 min at 160°C
3.	Cured for 6.00 min at 160°C
4.	Cured for 6.00 min at 160°C
5.	Cured for 11.0 min at 160°C
6.	Cured for 6.00 min at 160°C
7.	Cured for 6.00 min at 160°C
8.	Cured for 6.00 min at 160°C
9.	Cured for 6.00 min at 160°C
10.	Cured for 6.00 min at 160°C
11.	Cured for 6.00 min at 160°C
12.	Cured for 6.00 min at 160°C

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