

NANCAR® 1032

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1032 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 is highly water resistant, and non-corrosive to metal.

NANCAR® 1032 is an excellent multi-purpose nitrile rubber. It is particularly recommended for use in oil resistant rubber parts with low metal corrosion and high water resistance.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Good Wear Resistance		
	Non-Corrosive		
	Oil Resistant		
Uses	Belts/Belt Repair		
	Gaskets		
	General Purpose		
	Hose		
	Rubber Replacement		
	Seals		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm ³	
Mooney Viscosity (ML 1+4, 100°C)	63	MU	ASTM D1646
Acrylonitrile Content - Bound	33.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Heat Loss	0.40	%	ASTM D5688
Corrosion - Rating	0.00		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A ¹	71		
Shore A ²	70		
Shore A ³	67		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
300% Strain ⁴	8.83	MPa	

300% Strain ⁵	9.81	MPa	
300% Strain ⁶	12.7	MPa	
Tensile Strength			ASTM D412
Yield ⁷	25.9	MPa	
Yield ⁸	24.7	MPa	
Yield ⁹	19.6	MPa	
Tensile Elongation			ASTM D412
Break ¹⁰	670	%	
Break ¹¹	610	%	
Break ¹²	570	%	
Tear Strength	58.8	kN/m	ASTM D624
Compression Set ¹³ (100°C, 70 hr)	62	%	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, in Water	6.0	%	
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, in Water	-26	%	
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
100°C, in Water	0.0		
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, in Water	2.9	%	
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

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