

NANCAR® 1072

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1072 is a carboxyl-modified nitrile rubber with medium-high oil resistance. It may be processed like normal nitrile rubber except that metal oxide is added at the end of the mixing cycle.

NANCAR® 1072 offers outstanding abrasion and wear resistance. It is recommended for use in belts, industrial rollers, wheels, shoe soles, heels and other mechanical goods requiring high abrasion resistance.

General Information			
Features	Good Abrasion Resistance		
	Good Wear Resistance		
	Oil Resistant		
Uses	Belts/Belt Repair		
	Footwear		
	Rollers		
	Wheels		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm ³	
Mooney Viscosity (ML 1+4, 100°C)	48	MU	ASTM D1646
Acrylonitrile Content - Bound	26.5	%	Internal Method
Stabilizer	Non-staining		
Abrasion - Test, c.c ¹	53		DIN 53516
Heat Loss	0.40	%	ASTM D5688
Abrasion Index - NBS test	911		ASTM D1630
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ² (Shore A)	80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ³ (300% Strain)	15.7	MPa	ASTM D412
Tensile Strength ⁴ (Yield)	25.0	MPa	ASTM D412
Tensile Elongation ⁵ (Break)	460	%	ASTM D412
Tear Strength	53.9	kN/m	ASTM D624
Compression Set ⁶ (100°C, 70 hr)	57	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁷ (100°C, 70 hr)	7.0	%	ASTM D865
Change in Ultimate Elongation in Air ⁸ (100°C, 70 hr)	-26	%	ASTM D865

Change in Durometer Hardness in Air ⁹ (Shore A, 100°C, 70 hr)	5.0		ASTM D865
Change in Tensile Strength ¹⁰			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	9.0	%	
100°C, 70 hr, in ASTM #3 Oil	-14	%	
Change in Ultimate Elongation ¹¹			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-28	%	
100°C, 70 hr, in ASTM #3 Oil	-20	%	
Change in Durometer Hardness ¹²			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	7.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-6.0		
Change in Volume ¹³			ASTM D471
100°C, 70 hr, in ASTM Oil #1	-4.6	%	
100°C, 70 hr, in ASTM Oil #3	14	%	

NOTE

1. (Load weight: 10 NT)
2. Cured for 15.0 min at 160°C
3. Cured for 15.0 min at 160°C
4. Cured for 15.0 min at 160°C
5. Cured for 15.0 min at 160°C
6. Cured for 15.0 min at 160°C
7. Cured for 15.0 min at 160°C
8. Cured for 15.0 min at 160°C
9. Cured for 15.0 min at 160°C
10. Cured for 15.0 min at 160°C
11. Cured for 15.0 min at 160°C
12. Cured for 15.0 min at 160°C
13. Cured for 15.0 min at 160°C

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