

# NANCAR® 3245C

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

## Message:

NANCAR® 3245C is a carboxyl-modified nitrile rubber with medium-high oil resistance. It is high nitrile version of NANCAR® 1072 with less carboxyl content.

NANCAR® 3245C 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	1.00	g/cm <sup>3</sup>	
Mooney Viscosity (ML 1+4, 100°C)	48	MU	ASTM D1646
Acrylonitrile Content - Bound	32.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Abrasion - Test, c.c	1		DIN 53516
Heat Loss	0.50	%	ASTM D5688
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>1</sup> (Shore A)	69		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (300% Strain)	11.5	MPa	ASTM D412
Tensile Strength <sup>3</sup> (Yield)	17.1	MPa	ASTM D412
Tensile Elongation <sup>4</sup> (Break)	450	%	ASTM D412
Tear Strength	56.9	kN/m	ASTM D624
Compression Set <sup>5</sup> (100°C, 70 hr)	46	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air <sup>6</sup> (100°C, 70 hr)	11	%	ASTM D865
Change in Ultimate Elongation in Air <sup>7</sup> (100°C, 70 hr)	-20	%	ASTM D865

Change in Durometer Hardness in Air <sup>8</sup> (Shore A, 100°C, 70 hr)	3.0		ASTM D865
Change in Tensile Strength <sup>9</sup>			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	1.0	%	
100°C, 70 hr, in ASTM #3 Oil	-14	%	
Change in Ultimate Elongation <sup>10</sup>			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-29	%	
100°C, 70 hr, in ASTM #3 Oil	-27	%	
Change in Durometer Hardness <sup>11</sup>			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	3.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-4.0		
Change in Volume <sup>12</sup>			ASTM D471
100°C, 70 hr, in ASTM Oil #1	-4.3	%	
100°C, 70 hr, in ASTM Oil #3	8.9	%	

#### NOTE

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|-----|-----------------------------|
| 1.  | Cured for 15.0 min at 160°C |
| 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 |

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