NANCAR® 3345

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 3345 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 has low Mooney viscosity, superior processing characteristics, fast curing rate, low mold fouling, superior resilience properties and superior flowability.
NANCAR® 3345 is an excellent multi-purpose nitrile elastomer. It may be blended with vinyl resins to produce smooth extrusions and nerve-free sheets. Suggested applications include those in fuel hoses, packings, gaskets, oil seals, other car parts, oil resistant belts, footwear, roll covers and sponge products.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Copolymer
	Good Flow
	Good Processability
	Low Viscosity
	Oil Resistant
Uses	Automotive Applications
	Belts/Belt Repair
	Footwear
	Gaskets
	Hose
	Seals
	Sheet
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm³	
Mooney Viscosity (ML 1+4, 100°C)	45	MU	ASTM D1646
Acrylonitrile Content - Bound	33.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Heat Loss	0.20	%	ASTM D5688

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A [1]	74		
Shore A [2]	73		
Shore A [3]	72		

Elastomers	Nominal Value	Unit	Test Method

Tensile Stress			ASTM D412
300% Strain [4]	9.41	MPa	
300% Strain [5]	10.4	MPa	
300% Strain [6]	11.1	MPa	
Tensile Strength			ASTM D412
Yield [7]	26.0	MPa	
Yield [8]	25.7	MPa	
Yield [9]	26.9	MPa	
Tensile Elongation			ASTM D412
Break [10]	650	%	
Break [11]	590	%	
Break [12]	570	%	
Tear Strength	61.8	kN/m	ASTM D624
Compression Set [13] (100°C, 70 hr)	59	%	ASTM D395

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [14] (100°C, 70 hr)	-3.0	%	ASTM D865
Change in Ultimate Elongation in Air [15] (100°C, 70 hr)	-27	%	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, 70 hr, in ASTM #1 Oil	-2.0	%	
100°C, 70 hr, in ASTM #3 Oil	-30	%	
Change in Ultimate Elongation [18]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-21	%	
100°C, 70 hr, in ASTM #3 Oil	-29	%	
Change in Durometer Hardness [19]			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	0.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-10		
Change in Volume [20]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	0.20	%	
100°C, 70 hr, in ASTM Oil #3	15	%	

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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China