NANCAR® 3375

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 3375 is a medium high acrylonitrile butadiene copolymer with excellent oil resistance. It is polymerized at low temperature and contains sufficient stabilizer for normal aging conditions. It has excellent processing characteristics, excellent physical properties, low mold fouling, well balanced oil resistance and low temperature resistance, and superior resilience properties.
NANCAR® 3375 is an excellent multi-purpose nitrile elastomer. Suggested applications include those in fuel hoses, packings, gaskets, oil seals, and other car parts, oil resistant belts, footwear and roll covers.

General Information			
Additive	Unspecified Stabilizer		
Features	Copolymer Fast Cure Good Processability Good Stability Low Temperature Resistant Oil Resistant		
Uses	Automotive Applications Belts/Belt Repair Footwear Gaskets Hose Seals		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.980	g/cm³	
Mooney Viscosity (ML 1+4, 100°C)	75	MU	ASTM D1646
Acrylonitrile Content - Bound	33.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Heat Loss	0.30	%	ASTM D5688
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A [1]	71		
Shore A [2]	70		
Shore A [3]	69		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412

300% Strain [4]	9.12	MPa	
300% Strain [5]	10.3	MPa	
300% Strain [6]	10.9	MPa	
Tensile Strength			
Yield [7]	29.0	MPa	ASTM D412
Yield [8]	29.5	MPa	ASTM D412
Tensile Elongation			ASTM D412
Break [9]	650	%	
Break [10]	590	%	
Break [11]	560	%	
Tear Strength	62.8	kN/m	ASTM D624
Compression Set [12] (100°C, 70 hr)	59	%	ASTM D395

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [13] (100°C, 70 hr)	0.0	%	ASTM D865
Change in Ultimate Elongation in Air [14] (100°C, 70 hr)	-17	%	ASTM D865
Change in Durometer Hardness in Air [15] (Shore A, 100°C, 70 hr)	2.0		ASTM D865
Change in Tensile Strength [16]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	0.0	%	
100°C, 70 hr, in ASTM #3 Oil	-39	%	
Change in Ultimate Elongation [17]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-7.0	%	
100°C, 70 hr, in ASTM #3 Oil	-19	%	
Change in Durometer Hardness [18]			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	0.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-6.0		
Change in Volume [19]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	0.40	%	
100°C, 70 hr, in ASTM Oil #3	14	%	

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 20.0 min at 150°C
9.	Cured for 20.0 min at 150°C
10.	Cured for 40.0 min at 150°C
11.	Cured for 60.0 min at 150°C

12.	Cured for 60.0 min at 150°C
13.	Cured for 40.0 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

Recommended distributors for this material

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