NANCAR® 1965

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1965 is a low acrylonitrile butadiene copolymer. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions.
NANCAR® 1965 is recommended for use in applications requiring improved low temperature properties, oil resistance, water resistance and anti-metal corrosion. It has superior processing characteristics, fast curing rate, low mold fouling, superior resilience properties and superior flowability.
NANCAR® 1965 is designed for products requiring exposure to extremely low temperatures while maintaining good oil resistance, for instance, aircraft equipment parts and other industrial spare parts.

General Information			
Additive	Antioxidant		
Features	Antioxidant Copolymer Fast Cure Good Corrosion Resistance Good Processability High Flow Low to No Water Absorption Oil Resistant		
Uses	Aircraft Applications Industrial Parts Low Temperature Applications		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.940	g/cm³	
Mooney Viscosity (ML 1+4, 100°C)	63	MU	ASTM D1646
Acrylonitrile Content - Bound	20.0	%	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]	69		
Shore A [2]	68		
Shore A [3]	67		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
300% Strain [4]	7.85	MPa	

300% Strain [5]	8.34	MPa	
300% Strain [6]	8.63	MPa	
Tensile Strength			ASTM D412
Yield [7]	25.6	MPa	
Yield [8]	26.2	MPa	
Yield [9]	25.5	MPa	
Tensile Elongation			ASTM D412
Break [10]	640	%	
Break [11]	620	%	
Break [12]	590	%	
Tear Strength	58.8	kN/m	ASTM D624
Compression Set [13] (100°C, 70 hr)	54	%	ASTM D395

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [14] (100°C, 70 hr)	-29	%	ASTM D865
Change in Ultimate Elongation in Air [15] (100°C, 70 hr)	-52	%	ASTM D865
Change in Durometer Hardness in Air [16] (Shore A, 100°C, 70 hr)	5.0		ASTM D865
Change in Tensile Strength [17]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-23	%	
100°C, 70 hr, in ASTM #3 Oil	-58	%	
Change in Ultimate Elongation [18]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-32	%	
100°C, 70 hr, in ASTM #3 Oil	-44	%	
Change in Durometer Hardness [19]			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	-3.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-25		
Change in Volume [20]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	4.2	%	
100°C, 70 hr, in ASTM Oil #3	51	%	

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

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