

NANCAR® 3365

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 3365 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 superior processing characteristics, fast curing rate, low mold fouling and superior resilience properties. NANCAR® 3365 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 and roll covers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Fast Cure		
	Good Processability		
	Oil Resistant		
Uses	Automotive Applications		
	Belts/Belt Repair		
	Footwear		
	Gaskets		
	Hose		
	Seals		
	Sheet		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm ³	
Mooney Viscosity (ML 1+4, 100°C)	62	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	73		
Shore A ²	72		
Shore A ³	71		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412

300% Strain ⁴	9.32	MPa	
300% Strain ⁵	10.5	MPa	
300% Strain ⁶	11.4	MPa	
Tensile Strength			ASTM D412
Yield ⁷	27.8	MPa	
Yield ⁸	27.0	MPa	
Yield ⁹	27.3	MPa	
Tensile Elongation			ASTM D412
Break ¹⁰	620	%	
Break ¹¹	580	%	
Break ¹²	560	%	
Tear Strength	56.9	kN/m	ASTM D624
Compression Set ¹³ (100°C, 70 hr)	55	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹⁴ (100°C, 70 hr)	-14	%	ASTM D865
Change in Ultimate Elongation in Air ¹⁵ (100°C, 70 hr)	-38	%	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	-11	%	
100°C, 70 hr, in ASTM #3 Oil	-28	%	
Change in Ultimate Elongation ¹⁸			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-28	%	
100°C, 70 hr, in ASTM #3 Oil	-28	%	
Change in Durometer Hardness ¹⁹			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	1.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-9.0		
Change in Volume ²⁰			ASTM D471
100°C, 70 hr, in ASTM Oil #1	0.40	%	
100°C, 70 hr, in ASTM Oil #3	16	%	
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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

