

NANCAR® 2865

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 2865 is a medium acrylonitrile butadiene copolymer with medium 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® 2865 is recommended for use in applications requiring improved low temperature properties. It provides excellent extrusions and general processing improvement.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Fast Cure		
	Good Processability		
	Oil Resistant		
Uses	Low Temperature Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	
Mooney Viscosity (ML 1+4, 100°C)	65	MU	ASTM D1646
Acrylonitrile Content - Bound	28.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Heat Loss	0.20	%	ASTM D5688
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A ¹	73		ASTM D2240
Shore A ²	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
300% Strain ³	9.71	MPa	
300% Strain ⁴	10.5	MPa	
300% Strain ⁵	11.0	MPa	
Tensile Strength			ASTM D412
Yield ⁶	28.2	MPa	
Yield ⁷	27.8	MPa	
Yield ⁸	28.6	MPa	
Tensile Elongation			ASTM D412

Break ⁹	610	%	
Break ¹⁰	580	%	
Break ¹¹	560	%	
Tear Strength	59.8	kN/m	ASTM D624
Compression Set ¹² (100°C, 70 hr)	60	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹³ (100°C, 70 hr)	-6.0	%	ASTM D865
Change in Ultimate Elongation in Air ¹⁴ (100°C, 70 hr)	-24	%	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	-7.0	%	
100°C, 70 hr, in ASTM #3 Oil	-26	%	
Change in Ultimate Elongation ¹⁷			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-19	%	
100°C, 70 hr, in ASTM #3 Oil	-22	%	
Change in Durometer Hardness ¹⁸			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	-1.0		
Shore A, 100°C, 70 hr, in ASTM #3 Oil	-12		
Change in Volume ¹⁹			ASTM D471
100°C, 70 hr, in ASTM Oil #1	2.0	%	
100°C, 70 hr, in ASTM Oil #3	22	%	
NOTE			
1.	Cured for 60.0 min at 150°C		
2.	Cured for 20.0 min at 150°C		
3.	Cured for 20.0 min at 150°C		
4.	Cured for 40.0 min at 150°C		
5.	Cured for 60.0 min at 150°C		
6.	Cured for 60.0 min at 150°C		
7.	Cured for 40.0 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		

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