NANCAR® 4155J

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 4155J is a high acrylonitrile butadiene copolymer with excellent oil resistance. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions. It has fast curing rate, low mold fouling and superior resilience properties. It has good processing characteristics in compounds where flow and knitting are desired and is especially valuable in high durometer compounds.
NANCAR® 4155J provides good processing and building tack. It is suggeste for use in molded goods, friction stock and similar applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Good Flow		
	Good Moldability		
	Good Processability		
	Oil Resistant		
	Resilient		
	Vapor Phase Curable		
Uses	Molds/Dies/Tools		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.998	g/cm³	
Mooney Viscosity			ASTM D1646
ML 1+4, 100°C [1]	75	MU	
ML 1+4, 100°C	55	MU	
Acrylonitrile Content - Bound	41.0	%	Internal Method
Solubility - in MEK	100	%	
Stabilizer	Non-staining		
Viscosity			ASTM D1646
Minimum	44.0		
Minutes to 35 points rise, t35	37.0	min	
Minutes to 5 points rise, t5	23.1	min	
Heat Loss	0.30	%	ASTM D5688
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 5 sec [2]	81		
Shore A, 5 sec [3]	80		
Shore A, 5 sec [4]	79		
Elastomers	**Nominal Value**	**Unit**	**Test Method**

Tensile Stress			ASTM D412
300% Strain [5]	12.4	MPa	
300% Strain [6]	10.9	MPa	
300% Strain [7]	7.40	MPa	
Tensile Strength			ASTM D412
Yield [8]	26.8	MPa	
Yield [9]	26.3	MPa	
Yield [10]	24.0	MPa	
Tensile Elongation			ASTM D412
Break [11]	580	%	
Break [12]	630	%	
Break [13]	750	%	
Tear Strength	73.0	kN/m	ASTM D624
Compression Set [14] (100°C, 70 hr)	82	%	ASTM D395

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [15] (100°C, 70 hr)	-1.0	%	ASTM D573
Change in Ultimate Elongation in Air [16] (100°C, 70 hr)	-36	%	ASTM D573
Change in Durometer Hardness in Air [17] (Shore A, 100°C, 70 hr)	-5.0		ASTM D573
Change in Tensile Strength [18]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-3.0	%	
100°C, 70 hr, in IRM 903 Oil	-3.0	%	
Change in Ultimate Elongation [19]			ASTM D471
100°C, 70 hr, in ASTM #1 Oil	-33	%	
100°C, 70 hr, in IRM 903 Oil	-24	%	
Change in Durometer Hardness [20]			ASTM D471
Shore A, 100°C, 70 hr, in ASTM #1 Oil	3.0		
Shore A, 100°C, 70 hr, in IRM 903 Oil	-5.0		
Change in Volume [21]			ASTM D471
100°C, 70 hr, in ASTM Oil #1	-0.49	%	
100°C, 70 hr, in IRM 903 Oil	7.5	%	

NOTE	
1.	Uncured
2.	CURED @150°C for 60 mins
3.	CURED @150°C for 40 mins
4.	CURED @150°C for 20 mins
5.	CURED @150°C for 60 mins
6.	CURED @150°C for 40 mins
7.	CURED @150°C for 20 mins
8.	CURED @150°C for 60 mins
9.	CURED @150°C for 40 mins

10.	CURED @150°C for 20 mins
11.	CURED @150°C for 60 mins
12.	CURED @150°C for 40 mins
13.	CURED @150°C for 20 mins
14.	CURED @150°C for 60 mins
15.	CURED@150°C × 40 MINUTES
16.	CURED@150°C × 40 MINUTES
17.	CURED@150°C × 40 MINUTES
18.	CURED@150°C × 40 MINUTES
19.	CURED@150°C × 40 MINUTES
20.	CURED@150°C × 40 MINUTES
21.	CURED@150°C × 40 MINUTES

Recommended distributors for this material

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