

NANCAR® 1051M50

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1051M50 is a high acrylonitrile butadiene copolymer with excellent oil resistance. It is polymerized at low temperature and contains sufficient antioxidant for normal aging conditions. Its low Mooney viscosity makes for good flowability and processability.

NANCAR® 1051M50, closely similar to NANCAR® 1051, provides good processing and building tack. It is suggested for use in molded goods, friction stock and similar applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Good Flow		
	Good Processability		
	Oil Resistant		
Uses	Molds/Dies/Tools		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity			ASTM D1646
ML 1+4, 100°C ¹	85	MU	
ML 1+4, 100°C	50	MU	
Acrylonitrile Content - Bound	41.0	%	Internal Method
Stabilizer	Non-staining		
Heat Loss	0.70	%	ASTM D5688
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A, 5 sec ²	75		ASTM D2240
Shore A, 5 sec ³	74		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
300% Strain ⁴	12.2	MPa	
300% Strain ⁵	11.1	MPa	
300% Strain ⁶	9.00	MPa	
Tensile Strength			ASTM D412
Yield ⁷	26.1	MPa	
Yield ⁸	26.0	MPa	
Yield ⁹	25.9	MPa	
Tensile Elongation			ASTM D412
Break ¹⁰	570	%	

Break ¹¹	610	%
Break ¹²	690	%
NOTE		
1.	Uncured	
2.	CURED @150°C for 60 mins	
3.	CURED @150°C for 40 mins	
4.	CURED @150°C for 60 mins	
5.	CURED @150°C for 40 mins	
6.	CURED @150°C for 20 mins	
7.	CURED @150°C for 60 mins	
8.	CURED @150°C for 40 mins	
9.	CURED @150°C for 20 mins	
10.	CURED @150°C for 60 mins	
11.	CURED @150°C for 40 mins	
12.	CURED @150°C for 20 mins	

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