

NANCAR® 1203HD

Acrylonitrile Butadiene Rubber

Nantex Industry Co., Ltd.

Message:

NANCAR® 1203HD is a dry blend of 70 parts NANCAR NBR and 30 parts polyvinyl chloride. This polymer has sufficient stabilizer for normal aging conditions. It can be processed by normal mixing procedures. Its good processability for extrusion provides smooth surface on the resultant products. NANCAR® 1203HD has excellent resistance to abrasion, ozone, oils, fuels and solvents. It is suggested for use in cable jackets, belts, hose covers, shoe soles, rolls and sponge applications.

General Information			
Additive	Unspecified Stabilizer		
Features	Good Abrasion Resistance		
	Good Processability		
	Good Stability		
	Good Surface Finish		
	Oil Resistant		
	Ozone Resistant		
Uses	Belts/Belt Repair		
	Cable Jacketing		
	Footwear		
	Hose		
	Protective Coverings		
	Rollers		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	72	MU	ASTM D1646
Acrylonitrile Content - Bound	41.0	%	Internal Method
Compression Set - 70 hrs (100°C)	52	%	
Heat Loss	0.30	%	ASTM D5688
Ozone Resistance - 50 pphm X 40°C X 20% 1	no crack		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		
Elastomers	Nominal Value	Unit	
Tensile Strength (Yield)	12.9	MPa	
Tensile Elongation (Break)	420	%	
Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (100°C, 70 hr)	15	%	

Change in Ultimate Elongation in Air (100°C, 70 hr)	-33	%
Change in Durometer Hardness in Air (100°C, 70 hr)	3.0	
Change in Tensile Strength		
100°C, 70 hr, in ASTM #1 Oil	9.0	%
100°C, 70 hr, in IRM 903 Oil	6.0	%
Change in Ultimate Elongation		
100°C, 70 hr, in ASTM #1 Oil	-38	%
100°C, 70 hr, in IRM 903 Oil	-38	%
Change in Durometer Hardness		
Shore A, 100°C, 70 hr, in ASTM #1 Oil	12	
Shore A, 100°C, 70 hr, in IRM 903 Oil	8.0	
Change in Volume		
100°C, 70 hr, in ASTM Oil #1	-12	%
100°C, 70 hr, in IRM 903 Oil	-6.0	%

NOTE

1. at 24 hrs, 48 hrs, 72 hrs, 96 hrs, 168 hrs

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