



Rubber & Specialty Polymers Team / Tech-Center  
 188, Munji-ro, Yuseong-gu, Daejeon City, 305-738, Korea  
 TEL 82-42-719-3622/3626 FAX : 82-42-719-3684

## NBR 3280

NBR 3280 is a copolymer of butadiene and acrylonitrile manufactured by cold emulsion polymerization technology of Goodyear Tire and Rubber Company, USA.

NBR 3280 is a non staining, high mooney viscosity, and high acrylonitrile polymer designed to aid in processing operations such as calendering and extruding for oil and fuel service products. NBR 3280 offers high resistance to fuels, solvents, oils and gas permeation, and also it can be used for economic compound by high loading of plasticizer on compound recipe.

NBR 3280 is recommended to use in industrial and automotive parts such as fuel hoses and packings.

BASIC PROPERTIES	VULCANIZATE PROPERTIES																																																				
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- DAESAN PLANT : Tel 82-41-661-2702 FAX 82-41-661-2709
- R&D CENTER : Tel 82-42-866-5763 FAX 82-42-861-7146
- SEOUL OFFICE : Tel 82-2-3773-7923 FAX 82-2-3773-3071
- PUSAN OFFICE : Tel 82-51-801-2669 FAX 82-51-801-2650



## NBR 3280 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 3280	100 phr	Mooney Viscosity(ML1+4,100℃)	90
Carbon Black(SRF)	80.0	Rheometer(MDR,160℃×12 min,1 ° Arc, MDR)	
Zinc Oxide	5.0	ML(1b-in)	3.1
Stearic Acid	1.0	MH (1b-in)	27.7
Antioxidant(RD)	2.0	ts1 (min.)	0.6
Antioxidant(3-C)	1.0	Tc'50 (min.)	1.2
Plasticizer(DOP)	10.0	Tc'90 (min.)	2.3
Sulfur	0.5		
TT	1.0		
CZ	2.0		
<b>Total</b>	<b>202.5</b>		

Basic Properties(145℃×20min. Cured)	
Hardness(shore A)	73
Elongation(%)	420
Tensile (kg/cm <sup>2</sup> )	227
Circulating Oven Aging(100℃×72hrs)	
Hardness Change(point)	+3
Tensile Change(%)	+2.4
Elongation Change(%)	-27.4
Aged ASTM #1 Oil(100℃×72hrs)	
Hardness Change(point)	+3
Tensile Change(%)	+0.7
Elongation Change(%)	-30.7
Volume Swell(%)	-8.3
Aged ASTM #3 Oil(100℃×72hrs)	
Hardness Change(point)	+1
Tensile Change(%)	+1.1
Elongation Change(%)	-28.1
Volume Swell(%)	-4.9
Aged FUEL C(R.T℃×72hrs)	
Hardness Change(point)	-21
Tensile Change(%)	-43.5
Elongation Change(%)	-46.8
Volume Swell(%)	+31.2
Compression Set(160℃×30min. Cured)	
100℃×72hrs(%)	17.4
Rebound(30℃, %)	41.1
AKRON Abrasion	0.2767

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