



Rubber & Specialty Polymer Team / Tech-Center
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NBR 7150

NBR 7150 is a copolymer of butadiene and acrylonitrile manufactured by cold emulsion polymerization technology of Goodyear Tire and Rubber Company, USA.

NBR 7150 is a non staining, medium mooney, medium low acrylonitrile polymer designed to aid in processing operations such as transfer and compression molding. NBR 7150 offers good balance of oil and fuel resistance in low temperature and is no need for additional fatty acid for sulfur cure system activation. NBR 7150 is recommended to use in industrial and automotive parts such as oil hose.

BASIC PROPERTIES		VULCANIZATE PROPERTIES	
Polymerization Bound AN Content(%) Volatile Matter(%) Ash(%) Stabilizer Mooney Viscosity(ML1+4, 100°C) Color Specific Gravity Packaging Information Bale Weight Storage Condition Rubber should be stored in suitable condition such as no sunlight, no heat and dry place.	Cold Emulsion 28.0 0.3 Max. 0.5 Non-Staining 51.5 Tan 0.99 35kg	Recipes(ASTM D3187) NBR 7150 HAF(IRB #7) ZnO Stearic Acid TBBS Sulfur Total Stress-Strain Properties (ASTM D412, 145°C × 50min. Cured) 300% Modulus(kg/cm ²) Elongation(%) Tensile (kg/cm ²)	100.0 phr 40.0 3.0 1.0 0.7 1.5 146.2 143 472 251

*The above data is a typical value, therefore there may be a slight difference between the elements of a supplied product and the data.



- DAESAN PLANT : Tel 82-41-661-2702 FAX 82-41-661-2709
- R&D CENTER : Tel 82-42-870-6304 FAX 82-42-861-7146
- SEOUL OFFICE : Tel 82-2-3773-6664 FAX 82-2-3773-3071
- PUSAN OFFICE : Tel 82-51-801-2669 FAX 82-51-801-2650



NBR 7150 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 7150	100 phr	Mooney Viscosity(ML1+4,100℃)	62
Carbon Black(SRF)	80.0	Rheometer(MDR,160℃×12 min,1° Arc, MDR)	
Zinc Oxide	5.0	ML(1b-in)	2.6
Stearic Acid	1.0	MH (1b-in)	27.0
Antioxidant(RD)	2.0	ts1 (min.)	1.2
Antioxidant(3-C)	1.0	Tc'50 (min.)	1.8
Plasticizer(DOP)	10.0	Tc'90 (min.)	2.7
Sulfur	0.5		
TT	1.0		
CZ	2.0		
Total	202.5		

Basic Properties(145℃×20min. Cured)		
Hardness(shore A)		69
Elongation(%)		410
Tensile (kg/cm ²)		184
Circulating Oven Aging(100℃×72hrs)		
Hardness Change(point)		+2
Tensile Change(%)		+7.0
Elongation Change(%)		-32.7
Aged ASTM #1 Oil(100℃×72hrs)		
Hardness Change(point)		+2
Tensile Change(%)		+11.0
Elongation Change(%)		-28
Volume Swell(%)		-5.3
Aged ASTM #3 Oil(100℃×72hrs)		
Hardness Change(point)		-4
Tensile Change(%)		+8.1
Elongation Change(%)		-21.0
Volume Swell(%)		+1.2
Aged FUEL C(R.T℃×72hrs)		
Hardness Change(point)		-24
Tensile Change(%)		-57.8
Elongation Change(%)		-62.2
Volume Swell(%)		+56.2
Compression Set(160℃×30min. Cured)		
100℃×72hrs(%)		18.3
Rebound(30℃, %)		47.3
AKRON Abrasion		0.3240

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