



LG Chem DAESAN PLANT

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RUBBER R&D TEAM : TEL 82-41-661-2480 FAX:82-41-661-2495

NBR B3250

NBR 3250 is a copolymer of butadiene and acrylonitrile manufactured by cold emulsion polymerization technology of Goodyear Tire and Rubber Company, USA.

NBR 3250 is a non staining, medium mooney viscosity, and high acrylonitrile polymer designed to aid in processing operations such as calendering and extruding for oil and fuel service products. NBR 3250 offers high resistance to fuels, solvents, oils and gas permeation. NBR 3250 is recommended to use in industrial and automotive parts such as fuel hoses and packings. NBR 3250 is a low mooney version of NBR 3280.

BASIC PROPERTIES		VULCANIZATE PROPERTIES	
Polymerization	Cold Emulsion	Recipes(ASTM D3187)	
Bound AN Content(%)	41.6	NBR 3250	100.0 phr
Volatile Matter(%)	0.4	HAF(IRB #7)	40.0
Ash(%)	0.3	ZnO	3.0
Stabilizer	Non-Staining	Stearic Acid	1.0
Mooney Viscosity(ML1+4,100℃)	54.3	TBBS	0.7
Color	Light Tan	Sulfur	1.5
Specific Gravity	0.99	Total	146.2
Packaging Information		Stress-Strain Properties	
Bale Weight	35kg	(ASTM D412, 145℃×50min. Cured)	
Storage Condition		300% Modulus(kg/cm ²)	166
Rubber should be stored in suitable condition such as no sunlight, no heat and dry place.		Elongation(%)	548
		Tensile (kg/cm ²)	331

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



NBR 3250 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 3250	100 phr	Mooney Viscosity(ML1+4, 100℃)	
Carbon Black(SRF)	80.0	Rheometer(MDR, 160℃ × 12 min, 1° Arc, MDR)	
Zinc Oxide	5.0	ML(1b-in)	
Stearic Acid	1.0	MH (1b-in)	
Antioxidant(RD)	2.0	ts1 (min.)	
Antioxidant(3-C)	1.0	Tc'50 (min.)	
Plasticizer(DOP)	10.0	Tc'90 (min.)	
Sulfur	0.5		
TT	1.0		
CZ	2.0		
Total	202.5		

Basic Properties(145℃ × 20min. Cured)

Hardness(shore A)

Elongation(%)

Tensile (kg/cm²)

Circulating Oven Aging(100℃ × 72hrs)

Hardness Change(point)

Tensile Change(%)

Elongation Change(%)

Aged ASTM #1 Oil(100℃ × 72hrs)

Hardness Change(point)

Tensile Change(%)

Elongation Change(%)

Volume Swell(%)

Aged ASTM #3 Oil(100℃ × 72hrs)

Hardness Change(point)

Tensile Change(%)

Elongation Change(%)

Volume Swell(%)

Aged FUEL C(R.T℃ × 72hrs)

Hardness Change(point)

Tensile Change(%)

Elongation Change(%)

Volume Swell(%)

Compression Set(160℃ × 30min. Cured)

100℃ × 72hrs(%)

Rebound(30℃, %)

AKRON Abrasion

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