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NBR 6250

NBR 6250 is a copolymer of butadiene and acrylonitrile manufactured by advanced emulsion polymerization technology of Goodyear and LG Chem.

NBR 6250 is a non staining, medium mooney, and medium high acrylonitrile polymer designed to aid in processing operations such as extruding and calendering.

NBR 6250 is a low temperature polymerized polymer, and such as, retains the excellent physical and processing properties of a cold nitrile rubber. NBR 6250 is recommended to use in packings, shoe products, chemically blown sponge, oil field products, industrial and automotive molded parts. NBR 6250 is a high mooney version of NBR 6240.

BASIC PROPERTIES		VULCANIZATE PROPERTIES	
Polymerization	Cold Emulsion	Recipes(ASTM D3187)	
Bound AN Content(%)	33.9	NBR 6250	100.0 phr
Volatile Matter(%)	0.2	HAF(IRB #7)	40.0
Ash(%)	Max. 0.5	ZnO	3.0
Stabilizer	Non-Staining	Stearic Acid	1.0
Mooney Viscosity(ML1+4,100℃)	50	TBBS	0.7
Color	Tan	Sulfur	1.5
Specific Gravity	0.99	Total	146.2
Packaging Information		Stress-Strain Properties (ASTM D412, 145℃×50min. Cured)	
Bale Weight	35kg	300% Modulus(kg/cm ²)	131
Storage Condition		Elongation(%)	558
Rubber should be stored in suitable condition such as no sunlight, no heat and dry place.		Tensile (kg/cm ²)	293

*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 6250 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 6250	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)	2.0
Stearic Acid	1.0	MH (1b-in)	25.0
Antioxidant(RD)	2.0	ts1 (min.)	1.0
Antioxidant(3-C)	1.0	Tc'50 (min.)	1.7
Plasticizer(DOP)	10.0	Tc'90 (min.)	2.5
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)		195
Circulating Oven Aging(100℃×72hrs)		
Hardness Change(point)		+1
Tensile Change(%)		+7.9
Elongation Change(%)		-17.4
Aged ASTM #1 Oil(100℃×72hrs)		
Hardness Change(point)		+1
Tensile Change(%)		+5.3
Elongation Change(%)		-19.6
Volume Swell(%)		-6.2
Aged ASTM #3 Oil(100℃×72hrs)		
Hardness Change(point)		-1
Tensile Change(%)		+4.9
Elongation Change(%)		-17.6
Volume Swell(%)		-1.7
Aged FUEL C(R.T℃×72hrs)		
Hardness Change(point)		-24
Tensile Change(%)		-51.6
Elongation Change(%)		-51.2
Volume Swell(%)		+43.5
Compression Set(160℃×30min. Cured)		
100℃×72hrs(%)		18.3
Rebound(30℃, %)		46.0
AKRON Abrasion		0.3105

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