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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 #8)	40.0
Ash(%)	Max. 0.5	ZnO	3.0
Stabilizer	Non-Staining	Stearic Acid	1.0
Mooney Viscosity(ML1+4,100°C)	50	TBBS	0.7
Color	Light Tan	Sulfur	1.5
Specific Gravity	0.99	Total	146.2
Packaging Information		Stress-Strain Properties (ASTM D412, 145°C×50min. Cured)	
Bale Weight	35kg	300% Modulus(kg/cm ²)	124
Bale wrapping film : LDPE		Elongation(%)	590
Shelf Life : 18 months from date of production at room temperatures not exceeding 30°C under belowed storage condition (Retest critical parameters like MV and others after the expiry of shelf life).		Tensile (kg/cm ²)	293
Storage condition			
NBR should be stored in warehouse to be protected from sunlight, heat, moisture and foreign materials.			

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



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- PUSAN OFFICE : Tel 82-51-801-2669 FAX 82-51-801-2650

NBR 6250 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 6250	100 phr	Mooney Viscosity(ML1+4,100°C)	62
Carbon Black(SRF)	80.0	Rheometer(MDR,160°C×12 min,1 ° Arc, MDR)	
Zinc Oxide	5.0	ML(lb-in)	2.0
Stearic Acid	1.0	MH (lb-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°C×20min. Cured)	
Hardness(shore A)	69
Elongation(%)	410
Tensile (kg/cm ²)	195
Circulating Oven Aging(100°C×72hrs)	
Hardness Change(point)	+1
Tensile Change(%)	+7.9
Elongation Change(%)	-17.4
Aged ASTM #1 Oil(100°C×72hrs)	
Hardness Change(point)	+1
Tensile Change(%)	+5.3
Elongation Change(%)	-19.6
Volume Swell(%)	-6.2
Aged ASTM #3 Oil(100°C×72hrs)	
Hardness Change(point)	-1
Tensile Change(%)	+4.9
Elongation Change(%)	-17.6
Volume Swell(%)	-1.7
Aged FUEL C(R.T°C×72hrs)	
Hardness Change(point)	-24
Tensile Change(%)	-51.6
Elongation Change(%)	-51.2
Volume Swell(%)	+43.5
Compression Set(160°C×30min. Cured)	
100°C×72hrs(%)	18.3
Rebound(30°C, %)	46.0
AKRON Abrasion	0.3105

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