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NBR 7150

NBR 7150 is a copolymer of butadiene and acrylonitrile to be manufactured by cold emulsion polymerization technology of Goodyear and LG Chem.

NBR 7150 is a non staining, medium mooney, and medium low acrylonitrile polymer designed to aid in processing operations such as extrusion and press molding. NBR 7150 offers good balance between oil and fuel resistance and also has good elasticity in low temperature.

NBR 7150 is preferably used for industrial and automotive hoses and molded rubber part such as gaskets and o-rings. And also, it can be used for foam insulation application due to good elasticity. Furthermore LG Chem is producing the low and high mooney version of NBR 7150 by order of each customer.

BASIC PROPERTIES		VULCANIZATE PROPERTIES	
Polymerization	Cold Emulsion	Recipes(ASTM D3187)	
Bound AN Content(%)	28	NBR 7150	100.0 phr
Volatile Matter(%)	0.2	HAF(IRB #8)	40.0
Ash(%)	0.5	ZnO	3.0
Stabilizer	Non-Staining	Stearic Acid	1.0
Mooney Viscosity(ML1+4,100°C)	51 (47 - 55)	TBBS	0.7
Order Made Type		Sulfur	1.5
* Low MV NBR 7150	44 (40 - 47)	Total	146.2
* High MV NBR 7150	60 (55 - 63)	Stress-Strain Properties	
Color	Light Tan	(ASTM D412, 145°C×50min. Cured)	
Specific Gravity	0.98	300% Modulus(kg/cm ²)	135
Packaging Information		Elongation(%)	510
Bale Weight	35kg	Tensile strength(kg/cm ²)	250
Bale wrapping film : LDPE			
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).			
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 7150 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 7150	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)	2.6
Stearic Acid	1.0	MH (lb-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°C×20min. Cured)	
Hardness(shore A)	69
Elongation(%)	410
Tensile (kg/cm ²)	184
Circulating Oven Aging(100°C×72hrs)	
Hardness Change(point)	+2
Tensile Change(%)	+7.0
Elongation Change(%)	-32.7
Aged ASTM #1 Oil(100°C×72hrs)	
Hardness Change(point)	+2
Tensile Change(%)	+11.0
Elongation Change(%)	-28
Volume Swell(%)	-5.3
Aged ASTM #3 Oil(100°C×72hrs)	
Hardness Change(point)	-4
Tensile Change(%)	+8.1
Elongation Change(%)	-21.0
Volume Swell(%)	+1.2
Aged FUEL C(R.T°C×72hrs)	
Hardness Change(point)	-24
Tensile Change(%)	-57.8
Elongation Change(%)	-62.2
Volume Swell(%)	+56.2
Compression Set(160°C×30min. Cured)	
100°C×72hrs(%)	18.3
Rebound(30°C, %)	47.3
AKRON Abrasion	0.3240

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