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NBR 6280

NBR 6280 is a copolymer of butadiene and acrylonitrile manufactured by advanced emulsion polymerization technology of Goodyear and LG Chem.

NBR 6280 is a non staining, high mooney, and medium high acrylonitrile polymer designed to aid in processing operations such as extruding and calendering.

NBR 6280 has been designed to satisfy the need for high level plasticizers.

NBR 6280 is recommended to use in shoe products, chemically blown sponge, resistance to fuel and oil products.

BASIC PROPERTIES		VULCANIZATE PROPERTIES	
Polymerization	Cold Emulsion	Recipes(ASTM D3187)	
Bound AN Content(%)	34.0	NBR 6280	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)	80	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°C×50min. Cured)	
Bale wrapping film : LDPE		300% Modulus(kg/cm ²)	160
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).		Elongation(%)	510
Storage condition		Tensile (kg/cm ²)	302
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.



- DAESAN PLANT : Tel 82-41-661-2702 FAX 82-41-661-2709
- R&D CENTER : Tel 82-42-866-5763 FAX 82-42-861-7146
- SEOUL OFFICE : Tel 82-2-3773-7923 FAX 82-2-3773-3071
- PUSAN OFFICE : Tel 82-51-801-2669 FAX 82-51-801-2650



NBR 6280 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 6280	100 phr	Mooney Viscosity(ML1+4,100°C)	87
Carbon Black(SRF)	80.0	Rheometer(MDR,160°C×12 min,1° Arc, MDR)	
Zinc Oxide	5.0	ML(lb-in)	3.3
Stearic Acid	1.0	MH (lb-in)	28.9
Antioxidant(RD)	2.0	ts1 (min.)	0.8
Antioxidant(3-C)	1.0	Tc'50 (min.)	1.4
Plasticizer(DOP)	10.0	Tc'90 (min.)	2.2
Sulfur	0.5		
TT	1.0		
CZ	2.0		
Total	202.5		

Basic Properties(145°C×20min. Cured)		
Hardness(shore A)		70
Elongation(%)		425
Tensile (kg/㎠)		216
Circulating Oven Aging(100°C×72hrs)		
Hardness Change(point)		+4
Tensile Change(%)		+3.5
Elongation Change(%)		-27.9
Aged ASTM #1 Oil(100°C×72hrs)		
Hardness Change(point)		+4
Tensile Change(%)		+2.6
Elongation Change(%)		-31.4
Volume Swell(%)		-6.1
Aged ASTM #3 Oil(100°C×72hrs)		
Hardness Change(point)		-1
Tensile Change(%)		+4.1
Elongation Change(%)		-25.3
Volume Swell(%)		-1.9
Aged FUEL C(R.T°C×72hrs)		
Hardness Change(point)		-22
Tensile Change(%)		-51.0
Elongation Change(%)		-57.3
Volume Swell(%)		+41.5
Compression Set(160°C×30min. Cured)		
100°C×72hrs(%)		16.7
Rebound(30°C, %)		48.7
AKRON Abrasion		0.3073

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