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NBR 6850

NBR 6850 is a copolymer of butadiene and acrylonitrile manufactured by advanced emulsion polymerization technology of Goodyear and LG Chem.

NBR 6850 is a non staining, medium mooney, and medium high acrylonitrile polymer designed for easy processing, high productivity and excellent elastic properties.

NBR 6850 is preferably used for molded rubber parts such as gaskets, Orings and also good elasticity parts as rubber roller, anti-vibration system, etc.

Furthermore, it's also applicable to food contact items.

NBR 6850 is a high mooney version of NBR 6840.

BASIC PROPERTIES		VULCANIZATE PROPERTIES	
Polymerization	Cold Emulsion	Recipes(ASTM D3187)	
Bound AN Content(%)	34.0	NBR 6850	100.0 phr
Volatile Matter(%)	0.3	HAF(IRB #8)	40.0
Ash(%)	Max. 1.0	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	0.98	Total	146.2
* FDA Approved by 21 CFR 177 2600		Stress-Strain Properties	
Packaging Information		(ASTM D412, 145°C×50min. Cured)	
Bale Weight	35kg	300% Modulus(kg/cm ²)	159
Bale wrapping film : LDPE		Elongation(%)	492
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)	295
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.



- 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 6850 PACKING STUDY

COMPOUND RECIPES		PROPERTIES OF COMPOUNDS	
NBR 6850	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)	2.2
Stearic Acid	1.0	MH (lb-in)	29.4
Antioxidant(RD)	2.0	ts1 (min.)	0.8
Antioxidant(3-C)	1.0	Tc'50 (min.)	1.2
Plasticizer(DOP)	10.0	Tc'90 (min.)	1.6
Sulfur	0.5		
TT	1.0		
CZ	2.0		
Total	202.5		

Basic Properties(145°C×20min. Cured)		
Hardness(shore A)		71
Elongation(%)		406
Tensile (kg/㎡)		190
Circulating Oven Aging(100°C×72hrs)		
Hardness Change(point)		+6
Tensile Change(%)		+12.3
Elongation Change(%)		-22.3
Aged ASTM #1 Oil(100°C×72hrs)		
Hardness Change(point)		+6
Tensile Change(%)		+9.5
Elongation Change(%)		-24.9
Volume Swell(%)		-6.6
Aged ASTM #3 Oil(100°C×72hrs)		
Hardness Change(point)		+1
Tensile Change(%)		+6.8
Elongation Change(%)		-20.0
Volume Swell(%)		-2.5
Aged FUEL C(R.T°C×72hrs)		
Hardness Change(point)		-24
Tensile Change(%)		-46.8
Elongation Change(%)		-50.7
Volume Swell(%)		+42.1
Compression Set(160°C×30min. Cured)		
100°C×72hrs(%)		20.4
Rebound(30°C, %)		49.1
AKRON Abrasion		0.3265

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