LG Chem

Rubber & Specialty Polymers Team / Tech-Center

NBR 2255

NBR 2255 is a copolymer of butadiene and acrylonitrile to be manufactured by cold emulsion polymerization through the advanced technology and process of LG Chem.

NBR 2255 is a non staining, medium mooney, and low acrylonitrile polymer designed to aid in processing operations such as extrusion and press molding. And also, this grade offers excellent flexibility and elasticityin low temperature by the minimized block structure and low acrylonitrile content on polymer chain.
NBR 2255 is preferably uesd for industrial belt, hoses, and many rubber parts such as seal and gasket. And also, it can be used for the industrial roller and low hardness roller of office printer due to good dynamic elasticity.

BASIC PROPERTIES

Polymerization	Cold Emulsion
Bound AN Content(%)	22
Volatile Matter(%)	0.2
Ash(%)	0.4
Stabilizer	Non-Staining
Mooney Viscosity(ML1+4,100℃)	55 (milled)
Color	Light Tan
Specific Gravity	0.95

Packaging Information
Bale Weight 35kg
Bale wrapping film : LDPE

Shelf Life : 18 months from date of production at room temperatures not exceeding 30℃ 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.

VULCANIZATE PROPERTIES

Recipes(ASTM D3187)

NBR 2255	100.0 phr
HAF(IRB #8)	40.0
ZnO	3.0
Stearic Acid	1.0
TBBS	0.7
Sulfur	1.5
Total	146.2

Stress-Strain Properties
(ASTM D412, 145℃×50min. Cured)

300% Modulus(kg/㎠)	155
Elongation(%)	465
Tensile strength(kg/㎠)	265

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