

## KKPC KOSYN KNB 25M Acrylonitrile Butadiene Rubber (NBR)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Acrylonitrile Butadiene Rubber (NBR) Characteristics: KOSYN KNB is copolymer of high oil resistance and chemical resistance made from acrylonitrile and butadiene by the cold emulsion polymerization. Our NBR has superior working properties such as roll winding properties, compounding dispersibility and extrusion properties. Also, it is easily processed on account of the excellent vulcanization properties. Applications: Rubber products having elevated oil-resistance and cold-resistance such as packing, gasket, shoe soles, home appliances. Additional Notes: Bound Acrylonitrile: 28% Compound Properties: NBR 100, ZnO 3, Stearic Acid 1, HAF Black (IRB#7) 40, Accelerator TBBS 1, Sulfur 1.5, Total: 146.5 Volume Change: 2% This product is so sensitive to sunlight and humidity that it can be tarnished and caused deterioration of quality if exposed. It is recommended to store it in cool and shady area lest it should be exposed to direct sunlight. Do not expose to incompatible materials or contaminants. Data provided by Korea Kumho Petrochemical Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_KKPC-KOSYN-KNB-25M-Acrylonitrile-Butadiene-Rubber-NBR.php](http://www.lookpolymers.com/polymer_KKPC-KOSYN-KNB-25M-Acrylonitrile-Butadiene-Rubber-NBR.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	Not Compounded
Mooney Viscosity	60	60	Raw; ML1+4
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	100	100	Compounded; ML1+4
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	150Â°C, 40 min., Pressure Vulcanization. -4% Change after 100Â°C, 70 hrs, Oil Immersion
Tensile Strength, Ultimate	28.1 MPa	4080 psi	150Â°C, 40 min., Pressure Vulcanization. -8% Change after 100Â°C, 70 hrs, Oil Immersion
Elongation at Break	480 %	480 %	150Â°C, 40 min., Pressure Vulcanization. -20% Change after 100Â°C, 70 hrs, Oil Immersion
300% Modulus	0.0152 GPa	2.20 ksi	150Â°C, 40 min., Pressure Vulcanization. 21% Change after 100Â°C, 70 hrs, Oil Immersion

Thermal Properties	Metric	English	Comments
Shrinkage	-2.00 %	-2.00 %	Volume increases after 100Â°C, 70 hrs, Oil Immersion

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