

## KKPC KOSYN KNB 40M 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 product requiring excellent oil-resistance and water-resistance such as packing, high pressure hose, rolls. **Additional Notes:** Bound Acrylonitrile: 41% **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:** 0% 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-40M-Acrylonitrile-Butadiene-Rubber-NBR.php](http://www.lookpolymers.com/polymer_KKPC-KOSYN-KNB-40M-Acrylonitrile-Butadiene-Rubber-NBR.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	Not Compounded
Mooney Viscosity	60	60	Raw; ML1+4
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	95	95	Compounded; ML1+4
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	150Â°C, 40 min., Pressure Vulcanization. 4% Change after 100Â°C, 70 hrs, Oil Immersion
Tensile Strength, Ultimate	26.5 MPa	3840 psi	150Â°C, 40 min., Pressure Vulcanization. -1% Change after 100Â°C, 70 hrs, Oil Immersion
Elongation at Break	560 %	560 %	150Â°C, 40 min., Pressure Vulcanization. -26% Change after 100Â°C, 70 hrs, Oil Immersion
300% Modulus	0.0147 GPa	2.13 ksi	150Â°C, 40 min., Pressure Vulcanization. 45% Change after 100Â°C, 70 hrs, Oil Immersion

Thermal Properties	Metric	English	Comments
Shrinkage	0.000 %	0.000 %	after Oil Immersion
	@Time 252000 sec	@Time 70.0 hour	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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