

Kumho KNB 0230L

Acrylonitrile Butadiene Rubber
Korea Kumho Petrochemical Co., Ltd.

Message:

Kumho KNB 0230L is an Acrylonitrile Butadiene Rubber (NBR) material. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Kumho KNB 0230L are:
RoHS Compliant
Chemical Resistant
Copolymer
Heat Resistant
Moisture Resistant
Typical applications include:
Engineering/Industrial Parts
Consumer Goods
Hose/Tubing
Packaging

| General Information | | |
|---|--------------------------|-------------------|
| Features | Acid Resistant | |
| | Alkali Resistant | |
| | Copolymer | |
| | Good Abrasion Resistance | |
| | High Heat Resistance | |
| | Hydrocarbon Resistant | |
| | Moisture Resistant | |
| | Oil Resistant | |
| Uses | Footwear | |
| | Gaskets | |
| | Hose | |
| | Packaging | |
| | Rollers | |
| RoHS Compliance | RoHS Compliant | |
| Forms | Pellets | |
| Processing Method | Injection Molding | |
| Physical | Nominal Value | Unit |
| Specific Gravity | 0.978 | g/cm ³ |
| Mooney Viscosity | | |
| ML 1+4, 100°C ¹ | 64 | MU |
| ML 1+4, 100°C | 42 | MU |
| Bound Styrene | 35.0 | % |
| Hardness | Nominal Value | Unit |
| Durometer Hardness ² (Shore A) | 74 | |

| Elastomers | Nominal Value | Unit |
|--|-------------------------------------|------|
| Tensile Stress ³ (300% Strain) | 14.7 | MPa |
| Tensile Strength ⁴ (Yield) | 28.9 | MPa |
| Tensile Elongation ⁵ (Break) | 510 | % |
| Aging | Nominal Value | Unit |
| Change in Tensile Strength | | |
| 100°C, 70 hr, in ASTM #1 Oil | -3.0 | % |
| 300% Strain, 100°C, 70 hr, in ASTM #1 Oil | 38 | % |
| Change in Ultimate Elongation (100°C, 70 hr, in ASTM #1 Oil) | -24 | % |
| Change in Durometer Hardness (Shore A, 100°C, 70 hr, in ASTM #1 Oil) | -1.0 | |
| Change in Volume (100°C, 70 hr, in ASTM Oil #1) | 0.0 | % |
| Additional Information | Nominal Value | Unit |
| Monsanto ODR | | |
| 160°C ⁶ | 1.9 | kN/m |
| 160°C ⁷ | 12.4 | min |
| 160°C ⁸ | 4.0 | min |
| 160°C ⁹ | 7.5 | kN/m |
| 160°C ¹⁰ | 2.6 | min |
| NOTE | | |
| 1. | Compounded | |
| 2. | 150°C x 40 min, press vulcanization | |
| 3. | 150°C x 40 min, press vulcanization | |
| 4. | 150°C x 40 min, press vulcanization | |
| 5. | 150°C x 40 min, press vulcanization | |
| 6. | ARC ±1°, ML | |
| 7. | ARC ±1°, T' 90 | |
| 8. | ARC ±1°, T' 50 | |
| 9. | ARC ±1°, MH | |
| 10. | ARC ±1°, TS 01 | |

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