

Nipol® 1442

Acrylonitrile Butadiene Rubber

Zeon Chemicals L.P.

Message:

NIPOL® NITRILE ELASTOMERS (NBR) are recommended when oil or solvent resistance is needed for the proper functioning of rubber parts. Nipol nitrile elastomers are available in a broad range of acrylonitrile content to ensure optimal performance in a variety of conditions. As acrylonitrile content is increased, fuel, oil and solvent resistance improve; low-temperature flexibility and resiliency are improved as butadiene content increases. To obtain a broad spectrum of hardnesses and other essential properties, Nipol elastomers can be blended to achieve optimal performance. Nipol elastomers are the best value for all but the most demanding oil, heat and chemical applications and are available in powder, crumb, liquid and bale forms. Nipol nitrile elastomers are especially suitable for thermoplastics and thermoset modification; they are also used as additives in coatings and adhesives.

Special Properties/Applications

Crumb rubber with talc partitioning agent. Used in coal tar and asphalt modification.

| General Information | |
|------------------------|-----------------------|
| Filler / Reinforcement | Talc |
| Features | Oil Resistant |
| | Solvent Resistant |
| Uses | Additive |
| | Asphalt Modification |
| | Plastics Modification |
| Forms | Bale |
| | Crumb |
| | Liquid |
| | Powder |

| Physical | Nominal Value | Unit |
|-------------------------------|---------------|--------|
| Mooney Viscosity ¹ | 75 to 90 | MU |
| ACN Content | 33 | % |
| Viscosity - Cement | 2.00 to 10.0 | Pa · s |
| Median Particle Size | 9.50 | mm |

| Thermal | Nominal Value | Unit | Test Method |
|------------------------------|----------------|------|-------------|
| Glass Transition Temperature | -35.0 to -25.0 | °C | DSC |

| NOTE | |
|------|---------------------------------------|
| 1. | Measured on the base nitrile portion. |

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