

Zeon Chemicals Zetpol® PBZ-123 Hydrogenated Nitrile Elastomer

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

Material Notes:

PBZ-123 is a polyblend of hydrogenated nitrile polymer, Zetpol 1020, and polyvinyl chloride, Nippon Zeon 101EP. This material is mechanically fluxed to create a unique polyblend which exhibits good heat and sour gasoline resistance. Zetpol 1020 polyblend with PVC to provide an ideal material for fuel hoses and diaphragms.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zeon-Chemicals-Zetpol-PBZ-123-Hydrogenated-Nitrile-Elastomer.php

| Physical Properties | Metric | English | Comments |
|--------------------------|----------------------------------|----------------------------------|------------------|
| Specific Gravity | 1.08 g/cc | 1.08 g/cc | |
| Iodine Absorption Number | 20.3 - 28.5 | 20.3 - 28.5 | mg/100mg; R-133A |
| Mooney Viscosity | 118 - 132 @Temperature 100 °C | 118 - 132 @Temperature 212 °F | (1+4); ZCI-T-003 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------|-------------------|----------|
| Hardness, Shore A | 75 - 85 | 75 - 85 | R-351A |
| Tensile Strength at Break | 19.61 - 39.22 MPa | 2844 - 5688 psi | R-350A |
| Elongation at Break | 350 - 600 % | 350 - 600 % | R-350A |
| 300% Modulus | 0.01471 - 0.02941 GPa | 2.133 - 4.266 ksi | R-350A |

| Descriptive Properties | Value | Comments |
|-------------------------------|-----------|----------|
| % HYD | 91 | |
| Bound ACN (% , acrylonitrile) | 27.4-30.5 | |

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