# NOTIO™ PN-2070

**Mitsui Chemicals America, Inc. - *Thermoplastic Elastomer***

## General Information

**Product Description**

NOTIO™ is a flexible, low density, transparent elastomer with excellent heat resistance. The resin is not cross- linked and demonstrates superior elasticity. NOTIO's crystalline and amorphous structure (morphology) is controlled at the nano scale, allowing for the realization of properties that cannot be achieved with conventional elastomers.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • North America | | |
| Features | • Amorphous<br>• Crystalline | • Good Flexibility<br>• High Elasticity | • High Heat Resistance<br>• Low Density |
| Uses | • Adhesives<br>• Automotive Applications | • Film<br>• Packaging | • Plastics Modification |
| Appearance | • Clear/Transparent | | |
| Forms | • Pellets | | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.867 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 7.0 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus [2] | 2320 | psi | Internal Method |
| Tensile Strength [2] (Break) | 2030 | psi | Internal Method |
| Tensile Elongation [2] (Break) | > 800 | % | Internal Method |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Set [3] (150% Strain) | 12 | % | Internal Method |
| Compression Set [4] | | | Internal Method |
| 73°F, 24 hr | 20 | % | |
| 158°F, 24 hr | 60 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A) | 75 | | ASTM D2240 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Brittleness Temperature | -18.4 | °F | ASTM D746 |
| Glass Transition Temperature | 257 | °F | Internal Method |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Haze (78.74 mil, Compression Molded) | 7.00 | % | ASTM D1003 |

## Notes

[1] Typical properties: these are not to be construed as specifications.

[2] JIS K7113-2

[3] JIS K7113-2, 0.3 mm

[4] JIS K7113-2, 12 mm, 25% compression