# Elastamax™ XL-2065 BLACK 2001

## Thermoplastic Polyolefin Elastomer

### Key Characteristics

| Product Description | | | |
|---|---|---|---|
| PolyOne's Elastamax™ XL thermoplastic olefins (TPOs) are based on pelletized blends of polyolefin resins and select elastomers such EPDM. These materials have been engineered to provide a balance of physical properties and processability, and are an economical alternative to traditional thermoset rubber and more costly thermoplastic elastomers. | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive | • UV Stabilizer | | |
| Features | • General Purpose | | |
| Uses | • Construction Applications | • General Purpose | • Industrial Applications |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.03 | 1.03 | ASTM D792 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tear Strength | 157 psi | 1.08 MPa | ASTM D624 |
| **Elastomers** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Strength [2] (Break) | 1000 psi | 6.89 MPa | ASTM D412A |
| Tensile Elongation [2] (Break) | 830 % | 830 % | ASTM D412A |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 60 | 60 | |
| Shore A, 10 sec | 65 | 65 | |

### Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 175 °F | 79 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Rear Temperature | 370 to 450 °F | 188 to 232 °C |
| Middle Temperature | 380 to 460 °F | 193 to 238 °C |
| Front Temperature | 390 to 470 °F | 199 to 243 °C |
| Nozzle Temperature | 365 to 475 °F | 185 to 246 °C |
| Mold Temperature | 70 to 140 °F | 21 to 60 °C |

**Notes**

[1] Typical values are not to be construed as specifications.

[2] 20 in/min (510 mm/min)