

## PolyOne Elastamax™ XL-2065 Thermoplastic Polyolefin Elastomer (TPO (POE))

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE

### Material Notes:

PolyOne's Elastamax™ XL thermoplastic olefins (TPOs) are based on pelletized blends of polyolefin resins and select elastomers such as 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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Elastamax-XL-2065-Thermoplastic-Polyolefin-Elastomer-TPO-POE.php](http://www.lookpolymers.com/polymer_PolyOne-Elastamax-XL-2065-Thermoplastic-Polyolefin-Elastomer-TPO-POE.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.03 g/cc | 1.03 g/cc | ASTM D792 |

| Mechanical Properties     | Metric                                  | English                                 | Comments                     |
|---------------------------|---|---|------------------------------|
| Hardness, Shore A         | 65                                      | 65                                      | 10 sec; ASTM D2240           |
|                           | 71                                      | 71                                      | ASTM D2240                   |
| Tensile Strength at Break | 6.89 MPa                                | 999 psi                                 | 510 mm/min; ASTM D412A       |
| Tensile Stress            | 2.69 MPa                                | 390 psi                                 | 510 mm/min; ASTM D412A       |
|                           | @Strain 100 %                           | @Strain 100 %                           |                              |
| Tensile Stress            | 3.38 MPa                                | 490 psi                                 | 510 mm/min; ASTM D412A       |
|                           | @Strain 300 %                           | @Strain 300 %                           |                              |
| Elongation at Break       | 830 %                                   | 830 %                                   | 510 mm/min; ASTM D412A       |
| Tear Strength             | 35.9 kN/m                               | 205 pli                                 | Die C, 510 mm/min; ASTM D624 |
| Compression Set           | 35 %                                    | 35 %                                    | ASTM D395B                   |
|                           | @Temperature 23.0 °C,<br>Time 79200 sec | @Temperature 73.4 °F,<br>Time 22.0 hour |                              |

| Descriptive Properties | Value  | Comments |
|------------------------|--|----------|
| Additive               | UV Stabilizer                                  |          |
| Features               | General Purpose                                |          |
| Forms                  | Pellets  |          |
| Generic Material       | TPO (POE)                                      |          |
| Generic Name           | Thermoplastic Polyolefin Elastomer (TPO (POE)) |          |
| Processing Method      | Injection Molding                              |          |

| <b>Descriptive Properties</b> | <b>Value</b>                     | <b>Comments</b> |
|-------------------------------|----------------------------------|-----------------|
| <b>Regional Availability</b>  | <b>Africa &amp; Middle East</b>  |                 |
|                               | Asia Pacific                     |                 |
|                               | Europe                           |                 |
|                               | North America                    |                 |
|                               | South America                    |                 |
| <b>Uses</b>                   | <b>Construction Applications</b> |                 |
|                               | General Purpose                  |                 |
|                               | Industrial Applications          |                 |

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