

## PolyOne Elastamax HTE 2101-1000 Polyurethane Alloy (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

This is an extrusion grade polyurethane alloy. Physical Form: Pellet. Standard Color: Off white, opaque. Information provided by M. A. Hanna. M. A. Hanna and Geon merged to form PolyOne in 2000.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Elastamax-HTE-2101-1000-Polyurethane-Alloy-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Elastamax-HTE-2101-1000-Polyurethane-Alloy-nbspdiscontinued-.php)

| Physical Properties | Metric                               | English                              | Comments   |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Melt Flow           | 7.0 g/10 min                         | 7.0 g/10 min                         | ASTM D1238 |
|                     | @Load 3.80 kg,<br>Temperature 190 °C | @Load 8.38 lb,<br>Temperature 374 °F |            |
|                     | 28 g/10 min                          | 28 g/10 min                          | ASTM D1238 |
|                     | @Load 8.70 kg,<br>Temperature 190 °C | @Load 19.2 lb,<br>Temperature 374 °F |            |

| Mechanical Properties   | Metric   | English    | Comments                 |
|-------------------------|----------|------------|--------------------------|
| Hardness, Shore D       | 72       | 72         | 5 sec. delay; ASTM D2240 |
| Tensile Strength, Yield | 28.2 MPa | 4090 psi   | 20 in/min; CP-TM-09      |
| Elongation at Break     | 59.3 %   | 59.3 %     | 10 in/min; ASTM D412     |
| Flexural Yield Strength | 36.9 MPa | 5350 psi   | .5"/min; CP-TM-10        |
| Flexural Modulus        | 1.33 GPa | 193 ksi    | .5"/min; CP-TM-10        |
| Gardner Impact          | 28.1 J   | 20.7 ft-lb | CP-TM-11                 |

| Thermal Properties                          | Metric             | English             | Comments |
|---------------------------------------------|--------------------|---------------------|----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 73.5 °C            | 164 °F              | CP-TM-12 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.5 °C            | 150 °F              | CP-TM-12 |
| Flammability, UL94                          | V-0                | V-0                 | CP-TM-25 |
|                                             | @Thickness 3.17 mm | @Thickness 0.125 in |          |

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