

## BASF Elastollan® 1174D Polyether Type Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

### Material Notes:

Recommended for injection molding. Elastollan® 1100 series products are FDA Sec. 177.2600 compliant. Elastollan 1100 series of products are polyether-based thermoplastic polyurethanes. They exhibit excellent low temperature properties, hydrolysis resistance and fungus resistance. These products can be injection and blow molded and extruded. As with all TPU products this grade must be dried prior to processing. Property values below are typical values based on test samples cured 20 hours at 100°C before testing. Information provided by BASF Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Elastollan-1174D-Polyether-Type-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_BASF-Elastollan-1174D-Polyether-Type-Polyurethane-Elastomer.php)

| Physical Properties | Metric    | English                   | Comments  |
|---------------------|-----------|---------------------------|-----------|
| Density             | 1.19 g/cc | 0.0430 lb/in <sup>3</sup> | ASTM D792 |

| Mechanical Properties          | Metric        | English       | Comments                 |
|--------------------------------|---------------|---------------|--------------------------|
| Hardness, Shore D              | 73            | 73            | ASTM D2240               |
| Tensile Strength, Ultimate     | 45.0 MPa      | 6530 psi      | ASTM D412                |
| Tensile Strength, Yield        | 32.0 MPa      | 4640 psi      | ASTM D-412               |
|                                | @Strain 100 % | @Strain 100 % |                          |
|                                | 38.0 MPa      | 5510 psi      | ASTM D-412               |
|                                | @Strain 300 % | @Strain 300 % |                          |
| Elongation at Break            | 350 %         | 350 %         | ASTM D412                |
| Tear Strength                  | 255 kN/m      | 1460 pli      | ASTM D624                |
| Taber Abrasion, mg/1000 Cycles | 75            | 75            | H-18 wheel; ASTM D-1044. |
| Tensile Set                    | 80 %          | 80 %          | at break; ASTM D-412     |

| Electrical Properties  | Metric             | English            | Comments           |
|------------------------|--------------------|--------------------|--------------------|
| Electrical Resistivity | >= 1.00e+12 ohm-cm | >= 1.00e+12 ohm-cm | DIN 53482/VDE 0303 |
| Surface Resistance     | >= 1.00e+12 ohm    | >= 1.00e+12 ohm    | DIN 53482/VDE 0303 |

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