

## Ineos B50-35H-011 HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

Ineos B50-35H-011 is a high density polyethylene copolymer developed for blow molding applications. It is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-B50-35H-011-HDPE.php](http://www.lookpolymers.com/polymer_ineos-B50-35H-011-HDPE.php)

| Physical Properties | Metric  | English   | Comments   |
|---------------------|---|---|------------|
| Density             | 0.950 g/cc  | 0.0343 lb/in <sup>3</sup>                             | ASTM D4883 |
| Melt Flow           | 0.35 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 0.35 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties   | Metric                | English                   | Comments                         |
|-------------------------|-----------------------|---------------------------|----------------------------------|
| Hardness, Shore D       | 65                    | 65                        | ASTM D2240                       |
| Tensile Strength, Yield | 25.5 MPa              | 3700 psi                  | 2 in/min (50 mm/min); ASTM D-638 |
| Elongation at Break     | 700 %                 | 700 %                     | 2 in/min (50 mm/min); ASTM D-638 |
| Flexural Modulus        | 0.600 GPa             | 87.0 ksi                  | ASTM D747                        |
|                         | 1.103 GPa             | 160.0 ksi                 | Tangent; ASTM D 790              |
| Izod Impact, Notched    | 1.90 J/cm             | 3.56 ft-lb/in             | ASTM D256                        |
| Tensile Impact Strength | 302 kJ/m <sup>2</sup> | 144 ft-lb/in <sup>2</sup> | ASTM D1822                       |

| Thermal Properties                          | Metric      | English    | Comments   |
|---|-------------|------------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 70.0 °C     | 158 °F     | ASTM D648  |
| Vicat Softening Point                       | 130 °C      | 266 °F     | ASTM D1525 |
| Brittleness Temperature                     | <= -75.0 °C | <= -103 °F | ASTM D746  |

| Descriptive Properties | Value        | Comments |
|------------------------|--------------|----------|
| Process                | Blow Molding |          |

Contact Songhan Plastic Technology Co.,Ltd.

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**