

ExxonMobil HDPE BU46-060 High Density Polyethylene Resin

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

Material Notes:

Product Description: BU46-060 is a high molecular weight, high density polyethylene copolymer which contains a UV inhibitor. It possesses a combination of excellent processability, outstanding melt strength, high impact strength, chemical resistance and high stress cracking resistance. It is often used in coextrusion applications. **Availability:** Latin America, North America and South America **Applications:**

Intermediate Bulk Containers Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-BU46-060-High-Density-Polyethylene-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Density | 0.945 g/cc | 0.0341 lb/in ³ | ASTM D4883 |
| ESCR 100% Igepal® | >= 1000 hour | >= 1000 hour | ASTM D1963 |
| Melt Flow | <= 0.10 g/10 min | <= 0.10 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |
| | 6.3 g/10 min | 6.3 g/10 min | ASTM D1238 |
| | @Load 21.6 kg, Temperature 190 °C | @Load 47.6 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|-----------|
| Tensile Strength, Yield | 22.8 MPa | 3300 psi | ASTM D638 |
| Elongation at Break | 1100 % | 1100 % | ASTM D638 |
| Flexural Modulus | 1.03 GPa | 150 ksi | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|------------|------------|
| Vicat Softening Point | 124 °C | 255 °F | ASTM D1525 |
| Brittleness Temperature | <= -76.1 °C | <= -105 °F | ASTM D746 |

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