

ExxonMobil HDPE HD 9856B High Density Polyethylene Resin

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

Material Notes:

Product Description: HD 9856B is a HDPE blow molding resin designed for high performance packaging applications. Containers made from HD 9856B exhibit a unique combination of stiffness and environmental stress cracking resistance. These properties, coupled with excellent processability on both continuous and intermittent equipment, afford significant lightweighting and/or fast-cycling potential in many applications. HD 9856B does not contain any antistatic. **Availability:** Latin America, North America and South America **Additive:** Thermal Stabilizer: Yes **Antistatic:** No **UV Stabilizer:** No **Applications:** Caps and Closures Compression Moldings Food packaging Household and Industrial chemical containers Pharmaceutical Packaging Thermoformed Parts Thin Gauge Sheet **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HD-9856B-High-Density-Polyethylene-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------------|
| Density | 0.957 g/cc | 0.0346 lb/in ³ | ASTM D4883 |
| ESCR 100% Igepal® | >= 1000 hour | >= 1000 hour | F50; ASTM D1963A |
| Melt Flow | 0.46 g/10 min @Load 2.16 kg, Temperature 190 °C | 0.46 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|------------|
| Tensile Strength, Yield | 30.3 MPa | 4400 psi | ASTM D638 |
| Elongation at Break | 1100 % | 1100 % | ASTM D638 |
| Flexural Modulus | 1.45 GPa | 210 ksi | ASTM D790B |
| Flexural Modulus, 1% Secant | 1450 MPa | 210000 psi | ASTM D790A |
| Tensile Impact Strength | 252 kJ/m ² | 120 ft-lb/in ² | ASTM D1822 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|------------|-----------|
| Brittleness Temperature | <= -76.1 °C | <= -105 °F | ASTM D746 |

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