

SABIC M200056 High Density Polyethylene for Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Product Description: M200056 is a high density polyethylene grade with a narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide good flow properties, low warpage with good dimensional stability and high gloss. **Typical Applications:** M200056 is recommended for housewares, food containers, toys, caps and closures, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-M200056-High-Density-Polyethylene-for-Injection-Molding.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------------|
| Density | 0.956 g/cc | 0.0345 lb/in ³ | ASTM D1505 |
| ESCR 100% Igepal® | 3.0 hour | 3.0 hour | F50; ASTM D1693B |
| ESCR 10% Igepal® | 2.0 hour | 2.0 hour | F50; ASTM D1693B |
| Melt Flow | 20 g/10 min @Load 2.16 kg, Temperature 190 °C | 20 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|----------------|------------|
| Hardness, Shore D | 60 | 60 | ASTM D2240 |
| Tensile Strength at Break | 12.0 MPa | 1740 psi | ASTM D638 |
| Tensile Strength, Yield | 24.0 MPa | 3480 psi | ASTM D638 |
| Elongation at Break | >= 200 % | >= 200 % | ASTM D638 |
| Flexural Strength | 23.0 MPa | 3340 psi | ASTM D790 |
| Flexural Modulus | 0.825 GPa | 120 ksi | ASTM D790 |
| 1% Secant Modulus | 800 MPa | 116000 psi | ASTM D638 |
| Izod Impact, Notched | 0.300 J/cm | 0.562 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------|------------|------------|
| Vicat Softening Point | 124 °C | 255 °F | ASTM D1525 |
| Brittleness Temperature | <= -75.0 °C | <= -103 °F | ASTM D746 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Mold Temperature Processing Properties | 15.0 - 60.0 °C Metric | 59.0 - 140 °F English | Comments |
|---|--------------------------|--------------------------|----------|
| Injection Pressure | 60.0 - 100 MPa | 8700 - 14500 psi | |

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