

## SABIC M80064 Series High Density Polyethylene for Injection Molding

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

### Material Notes:

**Product Description:** M80064 is a high density polyethylene grade with a narrow molecular weight distribution suitable for injection molding applications. It has been designed to provide good rigidity, toughness and low warpage. M80064 is also available with UV stabilizer as M80064S. **Typical Applications:** M80064 series grades are recommended for crates, molded cases and trays, industrial pails and other similar products requiring toughness and rigidity. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-M80064-Series-High-Density-Polyethylene-for-Injection-Molding.php](http://www.lookpolymers.com/polymer_SABIC-M80064-Series-High-Density-Polyethylene-for-Injection-Molding.php)

| Physical Properties | Metric   | English  | Comments         |
|---------------------|--|--|------------------|
| Density             | 0.964 g/cc   | 0.0348 lb/in <sup>3</sup>                            | 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           | 8.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 8.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238       |

| Mechanical Properties     | Metric     | English       | Comments   |
|---------------------------|------------|---------------|------------|
| Hardness, Shore D         | 62         | 62            | ASTM D2240 |
| Tensile Strength at Break | 18.0 MPa   | 2610 psi      | ASTM D638  |
| Tensile Strength, Yield   | 26.0 MPa   | 3770 psi      | ASTM D638  |
| Elongation at Break       | >= 800 %   | >= 800 %      | ASTM D638  |
| Flexural Strength         | 25.0 MPa   | 3630 psi      | ASTM D790  |
| Flexural Modulus          | 1.00 GPa   | 145 ksi       | ASTM D790  |
| 1% Secant Modulus         | 950 MPa    | 138000 psi    | ASTM D638  |
| Izod Impact, Notched      | 0.750 J/cm | 1.41 ft-lb/in | ASTM D256  |

| Thermal Properties      | Metric      | English    | Comments   |
|-------------------------|-------------|------------|------------|
| Vicat Softening Point   | 125 °C      | 257 °F     | ASTM D1525 |
| Brittleness Temperature | <= -75.0 °C | <= -103 °F | ASTM D746  |

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

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

## 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