

## SABIC® HDPE M80064S

HIGH DENSITY POLYETHYLENE

### DESCRIPTION

M80064S is a UV stabilized, High Density Polyethylene injection molding grade with a narrow molecular weight distribution. It is typically used for injection molding applications where rigidity, toughness and warp resistance are required. Typical moulding conditions for SABIC® HDPE M80064S are: This product is not intended for and must not be used in any pharmaceutical/medical applications.

### TYPICAL APPLICATIONS

M80064S is typically used for injection molded cases, crates, trays, industrial pails and other similar items.

### TYPICAL PROPERTY VALUES

Revision 20260206

| PROPERTIES                                              | TYPICAL VALUES | UNITS    | TEST METHODS |
|---------------------------------------------------------|----------------|----------|--------------|
| <strong>POLYMER PROPERTIES</strong>                     |                |          |              |
| <strong>Melt Flow Rate (MFR)</strong>                   |                |          |              |
| at 190°C and 2.16 kg                                    | 8              | g/10 min | ASTM D1238   |
| <strong>Density at 23°C <sup>(1)</sup></strong>         | 964            | kg/m³    | ASTM D1505   |
| <strong>MECHANICAL PROPERTIES</strong>                  |                |          |              |
| <strong>1% Secant Modulus <sup>(2)</sup></strong>       | 950            | MPa      | ASTM D638    |
| <strong>Tensile Strength at Yield</strong>              | 26             | MPa      | ASTM D638    |
| <strong>Tensile Strength at Break</strong>              | 18             | MPa      | ASTM D638    |
| <strong>Tensile Elongation at Break</strong>            | >800           | %        | ASTM D638    |
| <strong>Flexural Strength</strong>                      | 42             | MPa      | ASTM D790    |
| <strong>Flexural Modulus</strong>                       | 1650           | MPa      | ASTM D790    |
| <strong>Izod Impact Strength</strong>                   | 75             | J/m      | ASTM D256    |
| <strong>Hardness (Shore D)</strong>                     | 62             | -        | ASTM D2240   |
| <strong>ESCR (100% Igepal), F50 <sup>(3)</sup></strong> | 3              | Hrs      | ASTM D1693B  |
| <strong>ESCR (10% Igepal), F50</strong>                 | 2              | Hrs      | ASTM D1693B  |
| <strong>THERMAL PROPERTIES</strong>                     |                |          |              |
| <strong>Vicat Softening Point</strong>                  | 125            | °C       | ASTM D1525   |
| <strong>Brittleness Temperature</strong>                | <-75           | °C       | ASTM D746    |

(1) Typical values: not to be construed as specification limits.

(2) Based on Injection molded specimens.

(3) Based on compression molded sheet

### PROCESSING CONDITIONS

Typical processing conditions for M80064S are:

Melt temperature: 200 - 250°C

Mold temperature: 15 - 60°C

Injection pressure: 600 - 1000 Bar

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### STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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