

SABIC® HDPE M75056F

HIGH DENSITY POLYETHYLENE

DESCRIPTION

M75056F is a butene-1 copolymerized medium flow high density polyethylene with a good balance between toughness and stiffness performances. It is intended for injection molded articles for general uses.

TYPICAL PROPERTY VALUES

Revision 20231113

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| PHYSICAL | | | |
| Density | 0.956 | g/cm ³ | ASTM D792 |
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| @ 190°C & 2.16 kg load | 7.5 | g/10 min | ASTM D1238 |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile modulus | 1260 | MPa | ASTM D638 |
| Tensile Strength at Yield | 24 | MPa | ASTM D638 |
| Tensile Strength at Break | 12 | MPa | ASTM D638 |
| Izod Impact @ 23oC | 62 | J/m | ASTM D256 |
| Hardness (Shore D) | 57 | - | ASTM D2240 |
| ESCR (10% Igepal), F50 ⁽²⁾ | 3.1 | Hrs | ASTM D1693B |
| THERMAL PROPERTIES | | | |
| *Melting point | 131 | °C | SABIC method |
| Vicat Softening Point | 126 | °C | ASTM D1525 |

(1) Mechanical properties tests based injection molding bars

(2) ESCR tests based on compress molding bars

APPLICATIONS

Typical applications include crates, pallets, containers, bins and housewares.

MEDICAL & FOOD REGULATION

The grades are not intended for and must not be used in any pharmaceutical / medical applications.

STORAGE AND HANDLING

The resin 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 do not exceed 50°C. SABIC would not give warranty to bad storage conditions that 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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