

SABIC® HDPE F01257AM

PROVISIONAL TECHNICAL DATA SHEET HIGH DENSITY MULTI-MODAL POLYETHYLENE FOR BLOWN FILM

DESCRIPTION

SABIC® HDPE F01257AM is a multimodal high density polyethylene grade typically used for blown film applications. This grade has outstanding combination of stiffness and impact performance. SABIC® HDPE F01257AM can be processed on blown film lines at high output rates with excellent bubble stability, very low gel levels and homogeneous appearance which converters and end-users require for high quality thin and thick film production.

TYPICAL APPLICATIONS

SABIC® HDPE F01257AM is typically used for the production of lamination and release films, artificial paper, labels, bags, grocery sacks, shopping bags, refuse bags, inliners, bitumen release foils, labels, thin films for bag on roll and heavy duty bags.

TYPICAL PROPERTY VALUES

Revision 20230629

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Density | 0.957 | kg/m ³ | ISO 1183 |
| Melt Flow Rate (MFR) | | | |
| at 190 °C and 5kg | 0.4 | g/10 min | ISO 1133 |
| at 190 °C and 21.6kg | 12 | g/10 min | ISO 1133 |
| MECHANICAL PROPERTIES ⁽¹⁾ | | | |
| Tensile Strength | 75 | MPa | ISO 527 |
| Dart Impact Strength | >200 | g | ASTM D1709 |

(1) Film properties are measured using 20 µm thickness with blow-up ratio 4 : 1

PROCESSING CONDITIONS

Typical processing conditions for F01257AM are: Melt Temperature: 200 - 225°C. Frost Line Height: 6 - 8 times die cross-cut. BUR: 3 – 5

STORAGE AND HANDLING

Polyethylene 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 which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process polyethylene resin within 6 months after delivery.

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