

Revision 20181012

SABIC[®] HDPE M200056

HIGH DENSITY POLYETHYLENE FOR INJECTION MOLDING

DESCRIPTION

M200056 is a High Density Polyethylene grade with narrow molecular weight distribution suitable for injection molding applications. It has been designed to give good flow properties, low warp age with good dimensional stability and high gloss.

TYPICAL APPLICATIONS

M200056 is recommended for housewares, food containers, toys, caps and closures etc.

TYPICAL PROPERTY VALUES

PROPERTIES TYPICAL VALUES UNITS **TEST METHODS** POLYMER PROPERTIES Melt Flow Rate at 190°C and 2.16 kg 20 g/10 min ASTM D1238 Density at 23°C (1) 956 ASTM D1505 kg/m³ MECHANICAL PROPERTIES 1% Secant Modulus 800 MPa ASTM D638 ASTM D638 Tensile Strength at Yield 24 MPa Tensile Strength at Break 12 MPa ASTM D638 Tensile Elongation at Break >200 % ASTM D638 Flexural Strength 23 MPa ASTM D790 Flexural Modulus ISO 178/1A 825 MPa Izod Impact Strength (2) 30 J/m ASTM D256 Hardness (Shore D) ASTM D2240 60 ESCR (100% Igepal), F50⁽³⁾ ASTM D1693B 3 hrs 2 ASTM D1693B ESCR (10% Igepal), F50 hrs THERMAL PROPERTIES Vicat Softening Point 124 °C ASTM D1525 °C ASTM D746 Brittleness Temperature <-75

(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 M200056 are: Melt temperature: 180 - 250°C Mold temperature: 15-60°C Injection pressure: 600 - 1000 Bar



HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

M200056 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific: information please contact SABIC local representative for certificate.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications

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.

DISCLAIMER

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