

SABIC® HDPE M200050

HIGH DENSITY POLYETHYLENE

DESCRIPTION

M200050 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

- Cases and boxes for industrial parts.
- Farm produce and beverage crates.
- Pails and buckets.

TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	17	g/10 min	ASTM D1238
Density			
Density	950	g/cm ³	ASTM D792
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile test ^{(1) (2)}			
Tensile Strength @ Yield	22	MPa	ASTM D638
Tensile Strength @ Break	6	MPa	ASTM D638
Tensile Elongation @ Break	120	%	ASTM D638
Flexural Strength	20	MPa	ASTM D790
Flexural Modulus	620	MPa	ASTM D790
THERMAL PROPERTIES			
Vicat Softening Temperature ^{(1) (2)}			
Vicat softening temperature	124	°C	ASTM D1525

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

(2) Based on Injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for M200050 are:

Barrel temperature: 200°C-250°C

Mold temperature: 15-60°C

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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