

SABIC® HDPE M40055M

PROVISIONAL TECHNICAL DATA SHEET HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE M40055M is a High Density Polyethylene specially developed for injection molding applications such as pallets and dust bins. HDPE M40055M exhibits high ESCR, good impact resistance, flowability and low warpage.

TYPICAL APPLICATIONS

M40055M is specially developed for Caps & Closures, Crates, Housewares, Industrial pails, Panels & Profiles, Sports, Leisure & toys.

TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	3.6	g/10 min	ISO 1133
at 190°C and 5 kg	11	g/10 min	ISO 1133
Density			
@23°C	955	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ⁽²⁾			
Tensile modulus	1200	MPa	ISO 527
Charpy Notched Impact Strength (-30°C, Type 1, Notch A)	>3.5	kJ/m ²	ISO 179

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

(2) Based on compression molded sheet.

PROCESSING CONDITIONS

Recommended processing temperature: 180°C to 250°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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