

# 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
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
<b>Density</b>			
@23°C	955	kg/m <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile modulus</b>	1200	MPa	ISO 527
<b>Charpy Notched Impact Strength (-30°C, Type 1, Notch A)</b>	>3.5	kJ/m <sup>2</sup>	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