

SABIC® HDPE B5403M

PROVISIONAL TECHNICAL DATA SHEET HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE B5403M is a High Density Polyethylene specially developed for blow molding / Jerry cans and drums. The material offers an excellent combination of stiffness and ESCR and a high Impact resistance.

TYPICAL APPLICATIONS

B5403M is specially designed for standard jerry cans, UN approved jerry cans, standard drums, L-ring drums for packaging of dangerous goods and UN approved open top drums.

TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 10kg	0.5	g/10 min	ISO 1133
at 190°C and 21.6 kg	2.7	g/10 min	ISO 1133
FRR (MFR 21.6kg / MFR 5kg)	5.4	-	ISO 1133
Density			
@23°C	954	kg/m³	ISO 1183
MECHANICAL PROPERTIES ⁽²⁾			
Tensile modulus	1230	MPa	ISO 527
Tensile Impact Strength at -30°C (Notched)	≥200	kJ/m²	ISO 8256
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C) ⁽²⁾	6	Hrs	ISO 16770

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

(2) Based on compression molded sheet.

PROCESSING CONDITIONS

Recommended processing temperature: 180 - 220°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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CHEMISTRY THAT MATTERS™

