

# HM8355 (BL4M)

High Density Polyethylene for Large Blow Moulding

## General Description

HM8355 (BL4M) is a high density polyethylene with 1-butene as comonomer. It has high molar mass, high stiffness and strength, good SCR and very good finished molding surface and is easily processable.

## Typical Applications

- Jerrycan
- Large containers

Catalyst: THT/BM

## Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.951±0.002	g/cm <sup>3</sup>	ISO 1183
FRR 5/2.16	27±3		
MFR190°/2.16	9.5 ±2	g/10 min	ISO 1133
MFR190°/5	0.35±0.06	g/10 min	ISO 1133
Notched impact (23 °C)	≥10	MJ/mm <sup>2</sup>	ISO 179/1eA
Stress at yield	26	MPa	ISO 527
Flexural creep modulus (4 points, 1min)	1100	MPa	DIN 19537-2
Tensile modulus (23 °C, v = 1mm/ min, Secant)	1200	MPa	ISO 527
Stress at break	34	MPa	ISO 527
Elongation at break	>800	%	ISO 527
Elongation at yield	10	%	ISO 527
Softening temperature	80	°C	ISO 306
Brittle temperature	< - 80	°C	ASTM D746-72
Shore D hardness	62	-	ISO 868
ESCR in full notch creep test (80 °C, 2% Arcopal)	5	h@3.5 MPa	ISO CD 16770
Impact strength (23 °C)	10	kJ/m <sup>2</sup>	ISO 179/1eA

\* Typical values; not to be considered as product specification.

**Note:**

Test specimens were taken from compression moulded sheet at 23°C.

FRR values are statistical and calculated by dividing MFR values.

Notch impact test specimen was taken from compressed moulded sheet at 23°C and the data quoted here are average values.

**Process condition:** Recommended injection molding temperature: 200-280 °C.