

Technical Data Sheet

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/cm³	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 ²	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,	1200	MPa	ISO 527
Secant)			
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%	5	h@3.5 MPa	ISO CD 16770
Arcopal)			
Impact strength (23 °C)	10	kJ/m ²	ISO 179/1eA

Rayomand Petroleum and Energy Commercial Co.	Tel: +98 21 2265 9165	www.rayomand.com
2 nd Floor, No. 48, 37 th Avenue - Saadat Abad Blvd. Tehran - Iran	Fax: +98 21 2265 9110	email: info@rayomand.com

NOTICE: All tests were performed under laboratory conditions and standard testing methods. The data are intended as a general guide only and do not necessarily represent results that might be obtained elsewhere. The use of this product must be guided by the user's own methods for selection of proper formulation. RAYOMAND disclaims any responsibility for misuse or misapplication of this product. RAYOMAND makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose. RAYOMAND liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited. The customer is responsible for determining whether products and information in this document are appropriate for the customer's use.



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* 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.