

# HF4760 (BL3)

 High Density Polyethylene for  
 Small Blow Moulding

## General Description

HF4760 (BL3) is a blow moulding grade resin with high density, stiffness and good ESCR. High rigidity and good flow ability makes it proper for usage in bottles and small blow moulding goods.

## Typical Applications

- Bottles
- Containers
- Packing of pharmaceuticals & surfactants

Catalyst: THT/BM

## Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.954±0.002	g/cm <sup>3</sup>	ISO 1183
FRR (5/2.16)	19±3		
MFR (190 °C/2.16 Kg)	23±4	g/10 min	ISO 1133
MFR (190 °C/5 Kg)	1.2±0.3	g/10 min	ISO 1133
Notched impact (23 °C)	e 9	MJ/mm <sup>2</sup>	ISO 179/1eA
Stress at yield	26	MPa	ISO 527
Flexural creep modulus (4 points, 1min)	1300	MPa	DIN 19537-2
Tensile modulus (230 °C, v = 1 mm / min, Secant)	1250	MPa	ISO 527
Stress at break	32	MPa	ISO 527
Elongation at break	> 600	%	ISO 527
Elongation at yield	10	%	ISO 527
Softening temperature	77	°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.

**Storage and handling.** Polyethylene products (in pelletized or powder form) should not be stored in direct sunshine and/or heat radiation. The storage area should be dry and the temperature preferably doesn't exceed 50 °C.

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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.