TDS TECHNICAL DATA SHEET

HDPE BL3

High Density Polyethylene · Blow Moulding Grade

Also traded as **HF4760** · Origin: **Iran**

MFR (190 °C / 5 KG)	DENSITY	PROCESS	CONTAINER SIZE
1.2 g/10 min	**0.954** g/cm³	**Blow Moulding**	**< 5** L

PRODUCT DESCRIPTION

HDPE BL3 is a blow moulding grade with 1-butene comonomer. High rigidity and an excellent balance of stiffness and environmental stress-crack resistance make it ideal for detergent and medicine bottles and all bottles and small containers below 5 litres.

- High density & stiffness
- Good flow & impact strength
- Good stress-crack resistance
- Food-contact grade

PROCESSING GUIDE

Process	**Extrusion blow moulding**
Melt temperature	**180 – 210 °C**
Container size	**Few ml – 5 L**
Swell ratio	**120 %**

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Rate (190 °C / 21.6 kg)	ISO 1133	g/10 min	**23**
Melt Flow Rate (190 °C / 5 kg)	ISO 1133	g/10 min	**1.2**
Flow Rate Ratio (21.6 / 5)	—	—	**19**
Density	ISO 1183	g/cm³	**0.954**
Swell Ratio	MPC test	%	**120**
MECHANICAL			
Notched Impact Strength (23 °C)	ISO 179/1eA	kJ/m²	**10**
Flexural Creep Modulus (4-point, 1 min)	DIN 19537-2	MPa	**1300**
Tensile Modulus (23 °C, secant)	ISO 527	MPa	**1250**
Stress at Break	ISO 527	MPa	**32**
Elongation at Break	ISO 527	%	**> 600**
Hardness, Shore D	ISO 868	—	**62**

APPLICATIONS



Plastic Containers



Medicine Bottles

PACKAGING

25 kg PE / woven bags

Palletised or jumbo on request

20′ / 40′ container loading

SUPPLY

Sea from Bandar Abbas, road or rail – **agreed per order**

FCA, CPT or DAP – terms in the offer

Pre-shipment inspection & export documents

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The values above are typical and are not to be construed as specification limits. Users should verify suitability for their own process and application.