



Technical Datasheet: HDPE BL3

Product Description:

“BL3” (HF 4760) is a high density polyethylene with 1-Butene as co monomer. It is high density and stiffness, good ESCR, high rigidity, good flowability, and impact strength.

Applications:

- Small blow moulding
- Bottles
- Containers (up to 5 lit.)
- Packing of pharmaceuticals & surfactants

Typical data:

Property	Test method	Unit	value
Mass density (23°C)	ISO 1183	g/cm ³	0.954
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	gr/10Min	0.35
Melt Flow Rate (190°C/5kg)	ISO 1133	g/10min	1.2
Melt Flow Rate (190°C/21.6kg)	ASTM D 1238	g/10min	23
Stress at yield	ISO 527	MPa	26
Flexural Creep Modulus (4 point, 1min)	DIN 19537-2	Mpa	1300
Tensile Modulus (23°C, v=1mm/min, Secant)	ISO 527	Mpa	1250
Stress at break	ISO 527	Mpa	32
Elongation at break	ISO 527	%	600
Elongation at yield	ISO 527	%	10
Softening Temperature	ISO 306	°C	77
Brittle Temperature	ASTM D746-72	°C	< - 80
Shore D hardness	ISO 868	-	62
ESCR in Full Notch Creep Test (80°C, 2% Arcopal)	ISO CD 16770	h@3.5 Mpa	5
Impact strength (23°C)	ISO 179/1eA	Kj/m ²	10
Swell ratio	Internal	%	120