

## Technical Datasheet BL3

### 1) 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.

### 2) Applications:

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

### 3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23°C)	ISO 1183	g/cm <sup>3</sup>	0.954
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/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, 1 min)	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 <sup>2</sup>	10
Swell ratio	Internal	%	120

\* Typical values not to be construed as specifications.