



## HD - BL 3

(License Grade Code HF 4760)

### HIGH DENSITY POLYETHYLENE

#### Product Description

“BL3” 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 <sup>0</sup> C)	ISO 1183	g/cm <sup>3</sup>	0.954
Melt Flow Rate (190 <sup>0</sup> C/5.0kg)	ISO 1133	g/10min	1.2
Melt Flow Rate (190 <sup>0</sup> C/21.6 kg)	ISO 1133	g/10min	23
Stress at Yield	ISO 527	MPa	26
Flexural Creep Modulus (4point, 1min)	DIN 19537-2	MPa	1300
Tensile Modulus (23 <sup>0</sup> 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	<sup>0</sup> C	77
Brittle Temperature	ASTM D746-72	<sup>0</sup> C	< - 80
Shore D hardness	ISO 868		62
ESCR in Full Notch Creep Test (80 <sup>0</sup> C, 2% Arcopal )	ISO CD 16770	h@3.5 MPa	5
Impact strength (23 <sup>0</sup> C)	ISO 179/1eA	Kj/m <sup>2</sup>	10
Swell ratio	Internal	%	120

Process conditions:

Recommended injection molding temperature: 200 - 280<sup>0</sup>C