

## High Density Polyethylene BL3 (HF4760)

Polyethylene (BL3 (HF4760)) is a heavy polyethylene copolymer with normal butene. BL3 material with hardness and stiffness and impact resistance and good ESCR for the production of pneumatic parts such as detergents and medicines and all bottles and small containers. (Less than 5 liters) is suitable

**Producer:**  
**Jam Petrochemical Company**

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in <sup>3</sup>	ISO 1183
Environmental Stress Crack Resistance	5.0 hour @Pressure 3.50 MPa	5.0 hour @Pressure 508 psi	ISO CD 16770
Melt Flow	1.2 g/10 min @Load 5.00 kg, Temperature 190 °C	1.2 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
	23 g/10 min @Load 21.6 kg, Temperature 190 °C	23 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ISO 868
Tensile Stress	32.0 MPa	4640 psi	at Break; ISO 527
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527
Elongation at Break	>= 600 %	>= 600 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	1.25 GPa	181 ksi	ISO 527
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179/1eA

