

HDPE**HDPE 1158P****HIGH DENSITY POLYETHYLENE (HDPE)**

This high-density polyethylene grade is engineered for blow moulding of large and medium-sized containers used to hold liquids. It combines high density, stiffness and modulus with good environmental stress crack resistance and consistent processability, giving finished parts dimensional stability and resistance to long-term stress cracking under load.

Typical Application

- Blow moulding of large-capacity containers
- Industrial and chemical drums
- Bulk liquid packaging

Product Characteristics

- High density, modulus and rigidity
- Good environmental stress crack resistance (ESCR)
- Excellent processability for large-part blow moulding
- Dimensional stability in thick-walled parts

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (190°C/21.6kg)		1.85	g/10 min
Density		0.950	g/cm ³
Tensile Stress at Yield		23	MPa
Environmental Stress Crack Resistance (50°C, F50)		320	h
Elongation at Break		≥300	%
Notched Impact Strength (Charpy)		≥28	kJ/m ²

1. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.

2. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.

3. Elongation and impact-strength figures are drawn from a separate distributor compilation of the same producer's published typical values, cross-checked against matching density and origin data.