

Technical Data Sheet
PE HD19550 LB
High-Density Polyethylene



PRODUCT DESCRIPTION

PE HD19550 LB is a high molecular weight hexene copolymer for Large Blow Molding applications. This grade exhibits extremely high impact strength, outstanding environmental stress crack resistance (ESCR) and excellent rigidity. The articles based on this product are characterized by high stiffness and exceptional toughness.

TYPICAL APPLICATIONS

PE HD19550 LB is recommended for the production of Large Blow Molded containers up to 210 litres with high ESCR and chemical resistance requiring UN approval for the packaging of dangerous products.

| Properties | Conditions | Method | Typical values* | Units |
|--------------------------------|----------------|------------|-----------------|-------------------|
| Rheology | | | | |
| Melt Flow Rate | 190 °C/21.6 kg | ISO 1133-1 | 1.9 | g/10 min |
| Physical | | | | |
| Density | | ISO 1183 | 0.955 | g/cm ³ |
| Mechanical | | | | |
| Tensile Stress at Yield | | ISO 527-1 | 28 | MPa |
| Elongation at Break | | ISO 527-1 | 800 | % |
| Flexural Modulus | | ISO 178 | 1400 | MPa |
| Charpy Notched Impact Strength | -30 °C | ISO 179 | 50 | kJ/m ² |
| BTT Stress Crack Resistance | F50, 100 % | ASTM D1693 | 1100 | hours |

*The values given are typical values measured on the product. These values should not be considered as specification.