

High Density Polyethylene ES6007

Description:

ES6007 is a homopolymer high-density polyethylene developed for the blow-molding segment. Offers excellent stiffness, high productivity and good organoleptic characteristics.

Applications:

Blow Molded Small Volume: Dairy bottles, yogurt and liquid food packing.

Process:

Blow Molding;
Injection Blow Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.7
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	57
Density	D 792	g/cm ³	0.960

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	30
Flexural Modulus – 1% Secant	D 790	MPa	1550
Izod Impact Strength	D 256	J/m	125
Deflection Temperature under Load at 0.455 MPa	D 648	°C	80

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

Recommended Processing Conditions:

Temperature Profile:

Blow Molding –

Temperature Profile:

- Feeding Zone: 175°C
- Barrel: 180°C
- Die: 190°C
- Mold: 5°C to 25°C
- Parison: 190°C

Injection Blow Molding –

Temperature Profile:

- Barrel: 175°C
- Die: 160°C
- Parison: 160°C

