

High Density Polyethylene GF4960

Description:

GF4960 is a homopolymer high-density polyethylene, developed for the blow-molding segment with high density and stiffness combined with high impact resistance.

Application:

Containers for yogurt, juices, milk, water, alcohol, pharmaceutical products and lubricant oils;

Process:

Blow Molding.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.34
Melt Flow Rate (190/21.6)	D 1238	g/10 min	28
Density	D 792	g/cm ³	0.961

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break	D 638	MPa	35
Flexural Modulus – 1% Secant	D 790	MPa	1400
Izod Impact Strength	D 256	J/m	225
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	25
Deflection Temperature under Load at 0.455 MPa	D 648	°C	79

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703. (b) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50°C.

Recommended Processing Conditions:

Temperature Profile:

- Feeding Zone: 180 °C
- Barrel: 180, 185 and 190 °C
- Die: 185 °C

