Braskem

Data Sheet

High Density Polyethylene GF4950

Description:

GF4950 is a high density polyethylene copolymer, developed for the blow-molding segment. It shows well balanced properties between impact and stiffness, combined with high environmental stress cracking resistance and processability.

Applications:

Bottles for cleaning products, food packing, surface-active agents, cosmetics and lubricants; Blends for irrigation pipes.

Additives:

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Process:

Blow Molding;
Injection Blow Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.36
Melt Flow Rate (190/21.6)	D 1238	g/10 min	28
Density	D 792	g/cm^3	0.956

Typical Properties:

Plaque Properties[a]

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	30
Flexural Modulus – 1% Secant	D 790	MPa	1350
Izod Impact Strength	D 256	J/m	150
Environmental Stress Cracking Resistance[b]	D 1693	h/F50	40
Environmental Stress Cracking Resistance[c]	D 1693	h/F50	70
Deflection Temperature under Load at 0.455 MPa	D 648	ºC	70

(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. 10% Igepal. 50ºC.
(c) Compression molded 2 mm thickness, 0.3 mm notched-plaques. 100% Igepal. 50ºC.

Recommended Processing Conditions:

Temperature Profile:

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