Braskem

Data Sheet

High Density Polyethylene GF4950HS

Description:

GF4950HS is a High Density Polyethylene, copolymer, offering an outstanding combination of good processability and excellent s*tress cracking* resistance (ESCR). It is recommended for the production of containers, flasks and bottles up to 30 liters for the transport of chemical products.

Application:

Applications:
Canisters from 2 to 20L for chemical products;
Flasks for concentrated detergent.
Others applications:
Reservoir for wind shield wiper and air ducts.

Process:

Blow Molding.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.21
Melt Flow Rate (190/21.6)	D 1238	g/10 min	20
Density	D 792	g/cm^3	0.951

Typical Properties:

Plaque Properties[a]

	ASTM Method	Units	Values
Tensile Strength at Break	D 638	MPa	35
Flexural Modulus – 1% Secant	D 790	MPa	1100
Izod Impact Strength	D 256	J/m	175
Environmental Stress Cracking Resistance[b]	D 1693	h/F50	150
Environmental Stress Cracking Resistance[c]	D 1693	h/F50	480
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: 180 ºC
- Barrel: 180, 185 y 190 ºC
- Die: 185 ºC