

High Density Polyethylene HS5403

Description:

HS5403 is a high density polyethylene, copolymer, exhibits high die swell, good environmental stress cracking resistance (ESCR), good surface quality and high transparency.

Applications:

Blow Molded Small Volume: Bottles for cleaning products, detergents, chemicals, pharmaceutical products and fabric softener.

Additives:

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Process:

Blow Molding;
Injection Blow Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190°C/2,16kg)	D 1238	g/10 min	0,30
Melt Flow Rate (190°C/21,6kg)	D 1238	g/10 min	26
Density	D 792	g/cm ³	0.954

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	30
Flexural Modulus – 1% Secant	D 790	MPa	1250
Izod Impact Strength	D 256	J/m	100
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	40
Environmental Stress Cracking Resistance ^c	D 1693	h/F50	120
Deflection Temperature under Load at 0.455 MPa	D 648	°C	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. 50°C.

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

Recommended Processing Conditions:
Temperature Profile:

Feeding Zone: 185°C

Barrel: 190°C

Die: 195°C

Parison: 200°C

Mold Temperature Range: 5°C to 25°C

