

Braskem PE HS5403

High Density Polyethylene

Braskem

Message:

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

Application:

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

Process:

Blow Molding; Injection Blow Molding.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High density		
	Copolymer		
Uses	Bottle		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Clear/transparent		
Processing Method	Blow molding		
	Compression molding		
	Injection blowing molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.954	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.30	g/10 min	ASTM D1238
190°C/21.6 kg	26	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹			ASTM D1693
2.00mm, 10% Igepal, molded, F50	40.0	hr	ASTM D1693
2.00mm, 100% Igepal, molded, F50	120	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	30.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Compression Molded)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	66.0	°C	ASTM D648

Injection instructions

Recommended Blow Molding Conditions:

Feeding Zone: 185°C

Barrel: 190°C

Die: 195°C

Mold Temperature: 5°C to 25°C

Parison: 200°C

NOTE

1. 0.3mm notched-plaques

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