

Braskem PE HS5010

High Density Polyethylene

Braskem

Message:

HS5010 is a high density polyethylene with high molecular weight, copolymer. Offers good processability, have good stress cracking resistance and low temperature impact resistance.

Application:

Food packing; Containers from 5 to 20 liters for chemicals and agrochemicals goods; Small tanks and bedliner.

Process:

Blow Molding

General Information			
Features	High ESCR (Stress Cracking Resistance) High molecular weight High density Low temperature impact resistance		
Uses	Agricultural Chemicals Bottles Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	10	g/10 min	ASTM D1238
190°C/5.0 kg	0.38	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
2.00mm, 10% Igepal, molded, F50	80.0	hr	ASTM D1693
2.00mm, 100% Igepal, molded, F50	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	35.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-40°C)	125	J/m	ASTM D6110
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	68.0	°C	ASTM D648
Injection instructions			

Recommended Blow Molding Conditions:

Feeding Zone: 180°C to 190°C

Barrel: 190°to 200°C

Die: 190° to 200°C

Maximum Mold Temperature: 30°C

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