

Braskem PE HS5103

High Density Polyethylene

Braskem

Message:

HS5103 is a high molecular weight high-density polyethylene, copolymer. Suitable for large parts blow molded an L-ring drum. Exhibit an good impact resistance and excellent stress cracking resistance (ESCR).

Application:
L-ring drum and general large parts blow molded.

Process:
Blow Molding.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Copolymer		
	Impact resistance, good		
	Workability, good		
Uses	Blow molding applications		
	Drum		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	3.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹			ASTM D1693
2.00mm, 10% Igepal, molded, F50	500	hr	ASTM D1693
2.00mm, 100% Igepal, molded, F50	> 800	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)	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-40°C)	475	J/m	ASTM D6110
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	70.0	°C	ASTM D648
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Injection instructions

Recommended Blow Molding Conditions:

Barrel: 180°to 190°C

Die: 200° to 220°C

Mold Temperature Range: 5°C to 25°C

NOTE

1. 0.3mm notched-plaques

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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