

Braskem PE HS5407

High Density Polyethylene

Braskem

Message:

HS5407 is a high molecular weight, high-density polyethylene, copolymer. Exhibit excellent wall thickness uniformity, an improved balance between stiffness and impact and high environmental stress cracking resistance (ESCR).

Application:

Blow Molded Large Parts: Drums for chemical, agricultural and food products up to 200 liters.

Process:

Blow Molding.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Copolymer		
	Compliance of Food Exposure		
Uses	Non-specific food applications		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.954	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	7.0	g/10 min	ASTM D1238
190°C/5.0 kg	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹			ASTM D1693
2.00mm, 10% Igepal, molded, F50	170	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)	1250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-40°C)	400	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
Injection instructions			

Recommended Blow Molding Conditions:Feeding Zone: 180°C to 190°CBarrel: 190°to 200°CDie: 210°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

