

Braskem PE ES6007

High Density Polyethylene

Braskem

Message:

ES6007 is a homopolymer high-density polyethylene developed for the blow-molding segment. Offers excellent stiffness, high productivity and good organoleptic characteristics.

Application:

Blow Molded Small Volume: Dairy bottles, yogurt and liquid food packing.

Process:

Blow Molding;

Injection Blow Molding.

General Information			
Features	Rigidity, high		
	High density		
	Homopolymer		
	The smell is low to none		
	Compliance of Food Exposure		
Uses	Non-specific food applications		
	Bottle		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.70	g/10 min	ASTM D1238
190°C/21.6 kg	55	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (2.00 mm, 100% Igepal, Compression Molded, F50)	< 15.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	30.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Compression Molded)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	79.0	°C	ASTM D648
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Injection instructions

Recommended Blow Molding Conditions:Feeding Zone: 175°CBarrel: 180°CDie: 190°C Mold: 5°C to 25°CParison: 190°CRecommended Injection Blow Molding Conditions:Barrel: 175°CDie: 160°CParison: 160°C

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