

# Braskem PE BU004W

High Density Polyethylene

Braskem

Message:

BU004W is a High Density Polyethylene (HDPE), copolymer, offering good processability, outstanding stiffness and excellent surface quality providing high gloss and differentiated optical properties.

Application:  
Packing for dairy, juices, alcohol, cosmetics; Toys.

Process:  
Blow Molding.

General Information			
Features	Rigidity, high		
	High density		
	Copolymer		
	Excellent appearance		
Uses	Cosmetics		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.966	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.38	g/10 min	ASTM D1238
190°C/21.6 kg	32	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (2.00 mm, 100% Igepal, Compression Molded, F50)	30.0	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)	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	200	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
Injection instructions			

Recommended Blow Molding Conditions: Feeding Zone: 160 a 170°C Barrel: 170 a 180°C Die: 180 a 190°C Mold Temperature Range: 5 a 25°C Blow up ratio: 3,0 a 4,5:1 Screw Package (Mesh): 40/60/40 Extruders equipped with L/D at least equal to 24

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