Braskem PE HB-0454

High Density Polyethylene

Braskem

Message:

HB0454 is a resin Polyethylene copolymer of High Density of average molecular weight produced for the Unipol® process. The bottle gotten with the HB0454 shows excellent processability, color and superficial appearance, absence of residual odor and good chemical resistance and to the piling up. It presents great easiness to the detachment of barbs being also adjusted for use in rotating machines of high productivity.
Application:
Small medicine bottles. bottles for cleaning products, cosmetics, food products and tensoative products.

General Information			
Features	Ablation Resistant Copolymer Food Contact Acceptable Good Chemical Resistance Good Processability Low to No Odor Medium Molecular Weight		
Uses	Bottles Household Goods Medical/Healthcare Applications Non-specific Food Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.954	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.36	g/10 min	
190°C/21.6 kg	32	g/10 min	
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00 mm, 10% Igepal, Compression Molded, F50	23.0	hr	
50°C, 2.00 mm, 100% Igepal, Compression Molded, F50	46.0	hr	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	59		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638

Yield, Compression Molded	29.0	MPa	
Break, Compression Molded	31.0	MPa	
Flexural Modulus - 1% Secant (Compression Molded)	1010	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	69.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525 [1]

NOTE

1. Loading 1 (10 N)

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