Ipiranga GF 4960

High Density Polyethylene

Braskem

Message:

GF4960 is a homopolymer high-density polyethylene, developed for the blow-molding segment with high density and stiffness combined with high impact resistance.
Application:
Containers for yogurt, juices, milk, water, alcohol, pharmaceutical products and lubricant oils;

General Information			
Features	Food Contact Acceptable Good Processability High Density High Impact Resistance High Stiffness Homopolymer		
Uses	Bottles Containers Food Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.961	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.34	g/10 min	
190°C/21.6 kg	28	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	25.0	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)	1400	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	230	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

Additional Information	Nominal Value	Unit
Blow Molding Barrel Temperature	180 to 190	°C
Blow Molding Die Temperature	185	°C
Blow Molding Temperature - Feeding Zone	180	°C

Recommended distributors for this material

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