Braskem PE SGF4960

High Density Polyethylene

Braskem

Message:

SGF4960 is a homopolymer high-density polyethylene, developed for the blow-molding segment with high density and stiffness combined with high impact resistance. The minimum biobased content of this grade is 96%, determined according to ASTM D6866.
Application:
Bottles for food applications such as dairy products and beverages; Rigid containers for non-food applications such as cosmetics and lubricant oils; Caps & closures molded by compression; Rigid containers for pharmaceutical applications (complies with USP 33).

General Information			
Features	BPA Free		
	Food Contact Acceptable		
	High Density		
	High Impact Resistance		
	High Stiffness		
	Homopolymer		
	Renewable Resource Content		
Uses	Blow Molding Applications		
	Blown Containers		
	Caps		
	Cosmetic Packaging		
	Food Containers		
Agency Ratings	ASTM D 6866		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.962	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 [1] (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	25.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength			ASTM D638
Yield, Compression Molded	30.0	MPa	
Break, Compression Molded	35.0	MPa	
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
Vicat Softening Temperature	129	°C	ASTM D1525 [2]
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Biobased Content	> 96	%	ASTM D6866
NOTE			
1.	0.3 mm notched-plaques		
2.	Loading 1 (10 N)		

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