

## Braskem Green PE SGF4960 Blow Molding and Monofilament High Density Polyethylene

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

### Material Notes:

Description: 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). Information provided by Braskem

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-Green-PE-SGF4960-Blow-Molding-and-Monofilament-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Braskem-Green-PE-SGF4960-Blow-Molding-and-Monofilament-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.962 g/cc	0.962 g/cc	ASTM D792
ESCR 100% Igepal®	25 hour @Temperature 50.0 °C	25 hour @Temperature 122 °F	h/F50; Compression molded 2mm notched-plaques; ASTM D1693
Melt Flow	0.34 g/10 min @Load 2.16 kg, Temperature 190 °C	0.34 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	28 g/10 min @Load 21.6 kg, Temperature 190 °C	28 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM D638
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D638
Izod Impact, Notched	2.25 J/cm	4.22 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	79.0 °C	174 °F	ASTM D648
Vicat Softening Point	129 °C	264 °F	10 N; ASTM D1525

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