

Braskem Green PE SGF4950 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: SGF4950 is a high-density polyethylene copolymer, developed for the blow-molding segment. It shows well balanced properties between impact and stiffness, combined with high environmental stress cracking resistance and processability. The minimum biobased content of this grade is 96%, determined according to ASTM D6866. Application: Bottles for household cleaning products and health and care products; Bottles for food products; Caps & closures molded by compression; Rigid containers for cosmetics and 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-SGF4950-Blow-Molding-and-Monofilament-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.956 g/cc	0.956 g/cc	ASTM D792
ESCR 100% Igepal®	55 hour @Temperature 50.0 °C	55 hour @Temperature 122 °F	h/F50; Compression molded 2mm notched-plaques; ASTM D1693
ESCR 10% Igepal®	50 hour @Temperature 50.0 °C	50 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	63	63	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D638
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D638
Flexural Modulus, 1% Secant	1350 MPa	196000 psi	ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Vicat Softening Point	@Load 1.02 kg	@Load 2.25 lb	ASTM D1525

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