

Braskem PE SGF4950HS

High Density Polyethylene

Braskem

Message:

SGF4950HS is a High Density Polyethylene, copolymer, offering an outstanding combination of good processability and excellent stress cracking resistance (ESCR). It is recommended for the production of containers, flasks and bottles up to 30 liters for the transport of chemical products. The minimum biobased content of this grade is 95%, determined according to ASTM D6866.

Application:

Suggested uses include:

Canisters from 2 to 20L for chemical products;

Flasks for concentrated detergent.

Others applications: Reservoir for wind shield wiper and air ducts.

Process:

Blow Molding.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Updatable resources		
	Workability, good		
Uses	Bottle		
	Container		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.21	g/10 min	ASTM D1238
190°C/21.6 kg	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	150	hr	ASTM D1693
50°C, 2.00mm, 100% Igepal, molded, F50	1000	hr	ASTM D1693
Biobased Content	95	%	ASTM D6866
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	35.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Compression Molded)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	70.0	°C	ASTM D648
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