

Braskem PE SGF4950

High Density Polyethylene

Braskem

Message:

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).

General Information			
Features	BPA Free		
	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	Renewable Resource Content		
Uses	Blending		
	Blow Molding Applications		
	Bottles		
	Cosmetic Packaging		
	Food Packaging		
Agency Ratings	ASTM D 6866		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.956	g/cm ³	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			ASTM D1693
	50°C, 2.00 mm, 10% Igepal, Compression Molded, F50	40.0	hr
	50°C, 2.00 mm, 100% Igepal, Compression Molded, F50	70.0	hr

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	30.0	MPa	
Break, Compression Molded	30.0	MPa	
Flexural Modulus - 1% Secant (Compression Molded)	1350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	75.0	°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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