

Braskem PE SGF4950

High Density Polyethylene

Braskem

Message:

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).

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Copolymer		
	Impact resistance, good		
	Updatable resources		
	Workability, good		
	Compliance of Food Exposure		
Uses	Shield		
	Cosmetics		
	Household goods		
	Bottle		
	Shell		
	Drug		
Agency Ratings		FDA 21 CFR 177.1520	
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	ASTM D1238
190°C/21.6 kg	28	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	40.0	hr	ASTM D1693
50°C, 2.00mm, 100% Igepal, molded, F50	70.0	hr	ASTM D1693
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, molding	30.0	MPa	ASTM D638
Fracture, molding	30.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched 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 ¹
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 96	%	ASTM D6866
NOTE			

1. 压力1 (10N)

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