Braskem PE GF 4950

High Density Polyethylene

Braskem

Message:

GF4950 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.
Application:
Bottles for cleaning products, food packing, surface-active agents and cosmetics; Blends for irrigation pipes.

General Information	
Features	Copolymer
	Food Contact Acceptable
	Good Impact Resistance
	Good Processability
	Good Stiffness
	High ESCR (Stress Crack Resist.)
Uses	Blending
	Bottles
	Cosmetics
	Food Packaging
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding
	Injection Blow Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.956	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.36	g/10 min	
190°C/21.6 kg	28	g/10 min	
Environmental Stress-Cracking Resistance			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	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	30.0	MPa	ASTM D638
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
Additional Information	**Nominal Value**	**Unit**	
Blow Molding Barrel Temperature	180 to 190	°C	
Blow Molding Die Temperature	185	°C	
Blow Molding Temperature - Feeding Zone	180	°C	

Recommended distributors for this material

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