

Braskem PE GF4950HS

High Density Polyethylene Copolymer

Braskem

Message:

GF4950HS 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.

Applications:

Canisters from 2 to 20L for chemical products; Flasks for concentrated detergent. Others applications: Reservoir for wind shield wiper and air ducts.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
Uses	Agricultural Applications		
	Automotive Applications		
	Blow Molding Applications		
	Bottles		
	Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
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	
190°C/21.6 kg	20	g/10 min	
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00 mm, 10% Igepal, Compression Molded, F50	150	hr	
50°C, 2.00 mm, 100% Igepal, Compression Molded, F50	480	hr	
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
Notched 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
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	

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