

Braskem PE SGM7746C

High Density Polyethylene

Braskem

Message:

SGM7746C is a High Density Polyethylene specially developed for the manufacturing of blow molding fuel tanks. It has high molar mass and excellent mechanical properties. Besides, it shows excellent tenacity, high resistance to stress cracking, and outstanding impact resistance. The minimum biobased content of this grade is 96%, determined according to ASTM D6866.

General Information			
Features	BPA Free		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
	Renewable Resource Content		
Uses	Automotive Applications		
	Blow Molding Applications		
	Fuel Tanks		
	Sheet		
Agency Ratings	ASTM D 6866		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.944	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	23.0	MPa	
Break, Compression Molded	42.0	MPa	

Tensile Elongation			ASTM D638
Yield, Compression Molded	13	%	
Break, Compression Molded	880	%	
Flexural Modulus - 1% Secant (Compression Molded)	890	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	760	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
Vicat Softening Temperature	126	°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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