

# Braskem PE GM 7746 C

High Density Polyethylene

Braskem

Message:

Description:  
GM7746C 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.

Application:  
Mono and multilayer fuel tanks for automobiles; small volume automotive reservoirs; sheet extrusion for pickup rear protectors.

General Information			
Features	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Automotive Applications		
	Fuel Tanks		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.944	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (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 <sup>1</sup>
NOTE			
1.	Loading 1 (10 N)		

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