

Braskem PE SGE7252

High Density Polyethylene

Braskem America Inc.

Message:

SGE7252 is a bimodal High Density Polyethylene specially developed for the manufacturing of caps and closures that require high stress cracking resistance. The minimum biobased content of this grade is 96%, determined according to ASTM D6866.

General Information			
Features	BPA Free		
	Food Contact Acceptable		
	High Density		
	High ESCR (Stress Crack Resist.)		
	Renewable Resource Content		
Uses	Caps		
	Closures		
Agency Ratings	ASTM D 6866		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 2.00 mm, 10% Igepal, Compression Molded, F50)	40.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	26.0	MPa	
Break, Compression Molded	14.0	MPa	
Tensile Strain			ISO 527-2
Yield, Compression Molded	9.0	%	
Break, Compression Molded	400	%	
Flexural Modulus (Compression Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength (Compression Molded)	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	72.0	°C	ISO 75-2/B
Vicat Softening Temperature	125	°C	ISO 306/A
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 96	%	ASTM D6866
NOTE			
1.	0.3 mm notched-plaques		

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