

High Density Polyethylene SGE7252

Description:

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.

Application:

Caps and closures.

Process:

Injection Molding.

Control Properties:

	Method	Units	Values
Melt Flow Rate (190/2.16)	ASTM D 1238	g/10 min	2.0
Density	ASTM D 792	g/cm ³	0.952

Typical Properties:

Plaque Properties^a

	Method	Units	Values
Tensile Strength at Yield	ISO 527-2	MPa	26
Tensile Strength at Break	ISO 527-2	MPa	14
Elongation at Yield	ISO 527-2	%	9
Elongation at Break	ISO 527-2	%	400
Flexural Modulus	ISO 178	MPa	1200
Shore D Hardness	ISO 868	-	55
Izod Impact Strength	ISO 180	kJ/m ²	5
Environmental Stress Cracking Resistance ^b	D 1693 B	h/F50	40
Deflection Temperature under Load at 0.455 MPa	ISO 075	°C	72
Vicat Softening Temperature at 10N	ISO 306	°C	125

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques; 10% Igepal; 50°C.

Final Remarks:

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.
2. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. Unless specified, Braskem does not recommend the use of this grade for the fabrication of packages, parts or any other type of product designed to medical and/or pharmaceutical applications.
8. The content of this Data Sheet replaces previous revisions published for this product.