High Density Polyethylene SHD7255LS-L

Description:

SHD7255LS-L is a high-density polyethylene, developed for the injection molding with good tenacity and impact properties combined with a good stiffness. It presents a radio between melt flow and density that provides excellent mechanical properties. This resin has additives against the action of ultraviolet radiation.
The minimum biobased content of this grade is 94.5%, determined according to ASTM D6866.

Application:

Bins, Boxes for fruits and vegetables, Boxes for fish and General purpose boxes.

Process:

Injection Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	4.5
Density	D 792	g/cm^3	0.954

Typical Properties:

Plaque Properties[a]

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	27
Flexural Modulus – 1% Secant	D 790	MPa	1270
Shore D Hardness	D 2240	-	63
Notched Izod Impact Strength	D 256	J/m	45
Environmental Stress Cracking Resistance[b]	D 1693	h/F50	< 5
Vicat Softening Temperature at 10 N	D 1525	°C	127
Deflection Temperature under Load at 0.455 MPa	D 648	ºC	74

(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; 100% Igepal; 50ºC

Final Remarks:

1. 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.
2. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
3. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
4. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
5. The mentioned values in this report can be changed at any moment without Braskem previous communication.
6. 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.
7. Braskem polyolefin products do not have additives with metals or other substances on purpose of oxidegradation. These additives and the decomposition and disintegration of polyolefins caused by oxidegradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Anvisa Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.
8. The content of this Data Sheet replaces previous revisions published for this product.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.