

High Density Polyethylene SHC7260
Description:

SHC7260 is a high-density polyethylene, developed for the injection molding which presents high hardness and stiffness, besides low tendency to warpage.

The minimum biobased content of this grade is 94%, determined according to ASTM D6866.

Application:

Boxes for frozen food and agricultural products, industrial containers and boxes for general use, Safety Helmets, Toilet seats, Housewares, Toys, Lids, Caps & Closures, Pallets and Boxes for beverages bottles.

Rigid containers for cosmetics and pharmaceutical applications (complies with USP 37).

Process:

Injection Molding.

Control Properties:

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	7.2
Density	D 792	g/cm ³	0.959

Typical Properties:

Plaque Properties^a

	ASTM Methods	Units	Values
Tensile Strength at Yield	D 638	MPa	30
Tensile Elongation at Yield	D 638	%	7.5
Flexural Modulus – 1% Secant	D 790	MPa	1350
Shore D Hardness	D 2240	-	64
Notched Izod Impact Strength	D 256	J/m	35
Environmental Stress Cracking Resistance ^b	D 1693	h/F50	< 4
Vicat Softening Temperature at 10 N	D 1525	°C	126
Deflection Temperature under Load at 0.455 MPa	D 648	°C	76

(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; 50°C

Final Remarks:

- 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.
- 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.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Application Engineering.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 25087-34-7.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.
- 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.
- The content of this Data Sheet replaces previous revisions published for this product.
- This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.