

High Density Polyethylene HD7255LS-L

Description:

HD7255LS-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 ratio between melt flow and density that provides excellent mechanical properties. This resin has additives against the action of ultraviolet radiation.

Application:

Bins, Boxes for fruits and vegetables, Boxes for fish, general purpose boxes and caps and closures for general use.

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	°C	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; 50°C

