

High Density Polyethylene HC7260LS-L

Description:

HC7260LS-L is a high-density polyethylene, developed for the injection molding which presents high hardness and stiffness, besides low tendency to warpage. This resin has additives against the ultraviolet radiation action.

Application:

Industrial containers, Safety Helmets, Toilet seats, Housewares, Toys, Lids, Pallets, Boxes for beverages bottles, caps and closures.

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

