



Exelene® HDPE

Product Data Sheet

High Density Polyethylene HDPE homopolymer con MWD¹ Thin Injection Molding

8000

Melt Flow Rate **8,0**

Density **0,961**

Applications

- Plastic beer, soda or juice boxes
- Fruit and vegetable baskets

Characteristics

- The Exelene resin HDPE 8000 meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

Grade	Additives Package
Exelene HDPE 8000	Antioxidant
Exelene HDPE 8000UV	Antioxidant, UV stabilizer

Properties	ASTM Testing	Units	Values
Resin Properties			
Melt Flow Rate	D 1238 (190°C; 2,16 kgf)	g/10 min	8,0
Density	D 792 (23°C)	g/cm ³	0.961
Melting Point	DSC	°C	133
Properties in standard test tubes by compression molding			
Tensile Strength @ yield	D 638 (50 mm/min, IV)	psi	4,500
Elongation @ break	D 638 (50 mm/min, IV)	%	> 600
Tangential Modulus of Elasticity	D 790 I/B (13 mm/min; 3,2 mm)	psi	175,000
Notched Izod Impact	D 256A (muesca; 3,2 mm)	ft x lb / in	1.00
Tensile Impact Strength	D 1822 (S)	ft x lb / in ²	80
Durometer hardness (Shore D)	D 2240 D (23°C; 1 s)	---	70
Brittleness Temperature	D 746A (F50; 25 lbfXin)	°C	< -75
Vicat Softening Point	D 1525A (50°C/h; 1,0 kgf)	°C	128
Deflection Temperature Under Load	D 648 (2°C/min; 66 psi)	°C	87
ESCR	Condition B ⁽²⁾ D 1693B (F50; 1,9 mm)	h	3

(1) MWD - Distribution of molecular mass

(2) Condicion B : Especimen ranurado con espesor de 1,905 mm = 0,075 in en 100 % Igepal CO-630 a 50°C