



# Exelene<sup>®</sup> HDPE

## Product Data Sheet

**High Density Polyethylene**  
**HDPE homopolymer**  
**Injection Molding**

# 8000

**Melt Flow Rate 8**

**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	
Exelene HDPE 8000UV	UV stabilizer

Properties	ASTM Testing	Units	Values
<b>Resin Properties</b>			
Melt Flow Rate	D 1238 (190°C; 2,16 kgf)	g/10 min	8
Density	D 792 (23°C)	g/cm <sup>3</sup>	0.961
Melting Point	DSC	°C	133
<b>Properties in standard test tubes by compression molding</b>			
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 <sup>2</sup>	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 <sup>(1)</sup> D 1693B (F50; 1,9 mm)	h	3

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

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