



Exelene[®] HDPE

Product Data Sheet

High Density Polyethylene
HDPE copolymer with MWD1 Thin
Injection Molding

6000

Melt Flow Rate 6,5

Density 0,952

Applications

- Large pans, buckets and 5 gallon barrels for paint and other aggressive chemicals
- Industrial lids for big cans

Characteristics

- The Exelene resin HDPE 6000 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.

Properties	ASTM Testing	Units	Values
Resin Properties			
Melt Flow Rate	D 1238 (190°C; 2,16 kgf)	g/10 min	6.5
Density	D 792 (23°C)	g/cm ³	0.952
Melting Point	DSC	°C	131
Properties in standard test tubes by compression molding			
Tensile Strength @ yield	D 638 (50 mm/min, IV)	psi	4,300
Elongation @ break	D 638 (50 mm/min, IV)	%	1000
Tangential Modulus of Elasticity	D 790 I/B (13 mm/min; 3,2 mm)	psi	155,000
Notched Izod Impact	D 256A (muesca; 3,2 mm)	ft x lb / in	1.3
Durometer hardness (Shore D)	D 2240 D (23°C; 1 s)	----	66
Brittleness Temperature	D 746A (F50; 25 lbfXin)	°C	< -76
Vicat Softening Point	D 1525A (50°C/h; 1,0 kgf)	°C	126
Deflection Temperature Under Load	D 648 (2°C/min; 66 psi)	°C	74
ESCR	Condition B ⁽²⁾ D 1693B (F50; 1,9 mm)	h	6.5

(1) MWD - Distribution of molecular mass

(2) Condition B: Grooved Specimen with thickness of 1,905 mm = 0,075 inch in 100 % Igepal CO-630 at 50°C

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