



Exelene® MDPE

Product Data Sheet

12037

Medium Density Polyethylene

Extrusion - Geomembranes

Hexene Copolymer

Melt Flow Rate **0.08**

Density **0.937**

Applications

- Mining, Pond, Landfill liners and films

Characteristics

- The Exelene resin MDPE 12037 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.
- Good processability, High stress cracking resistance, excellent melt strength

Grade	
Exelene MDPE 12037	

Properties	ASTM Testing	Units	Values
Resin Properties			
Melt Flow Rate	D 1238 (190°C; 2.16 kgf)	g/10 min	0.08
HLMI	D 1238 (190°C; 21.6 kgf)	g/10 min	12
Density	D 792 (23°C)	g/cm ³	0.937
Properties in standard test tubes by compression molding			
Tensile Strength @ yield	D 638 (50 mm/min, IV)	psi	2,700
Elongation @ break	D 638 (50 mm/min, IV)	%	>700
Vicat Softening Point	D 1525A (50°C/h; 1.0 kgf)	°C	119.00
Flexural Modulus	D 790	psi	116,000
ESCR	Condition A ⁽¹⁾ D 1693B (F50; 1.9 mm)	h	<1500

(1) Condition A: 100 % Igepal

