



# Lotrène® Q 50100

POLYETHYLENE

## High Density Polyethylene Resin



### DESCRIPTION AND USE

This extra high molecular weight hexene copolymer is tailored for large blow molded and thermoformed parts that require:

- Good melt strength
- Good rigidity
- Excellent ESCR
- Excellent low temperature impact strength

Typical applications include:

- 220L shipping containers
- Gasoline tanks
- Agricultural chemical tanks
- Pallets
- Automotive dunnage
- Truck bedliners and boats

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA Regulations 21CFR 177.1520.

Suits for food packaging.

NOMINAL PHYSICAL PROPERTIES	ASTM	UNIT	VALUE
Density	D1505	g/cm <sup>3</sup>	0.948
Melt Index, Condition 190 °C/2.16 kg	D1238	g/10min	0.06
HLMI, Condition 190 °C/21.6 kg	D1238	g/10min	10
ESCR Condition B, F <sub>50</sub> (100% Igepal)	D1693	h	>1000
Tensile Yield Strength, 50 mm/min	D638 Type IV	MPa	26
Elongation at Break, 50 mm/min	D638 Type IV	%	>600
Brittleness Temperature	D746	°C	<-75
Flexural Modulus, Tangent	D790	MPa	1170
Shore D Hardness	D2240	–	62

The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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