





Lotrène Q 50100

High Density Polyethylene Resin (HDPE)

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**
- Automative 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 ³	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 ₅₀ (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

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