



High Density Polyethylene Resin

Technical Data Sheet

Lotrène® Q 50100

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.
Suitable for food packaging.

Nominal Physical Properties *	ASTM	Unit	Value
Density	D792	g/cm ³	0.948
Melt Index, Condition 190 C°/ 2.16 kgs	D1238	g/10min	0.06
HLMI, Condition 190 C°/21.6 kgs	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 nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. 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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