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

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)

Typical applications include:

- Shipping containers
- Pallets
- Jerry cans and Fuel containers
- Automative dunnage
- Agricultural chemical tanks
- Truck bedliners

Nominal Physical Properties *	ASTM	Unit	Value
Density	D792	g/cm^3	0.948
HLMI, Condition 190 C°/ 21.6 kgs	D1238	g/10min	10
ESCR Condition B, F_{50} (100% Igepal)	D1693	h	>1000
Tensile Strength at Yield, 50.8 mm/min, Type IV bar	D638	MPa	25
Elongation at Break, 50.8 mm/min, Type IV bar	D638	%	700
Brittleness Temperature, Type A, Type I specimen	D746	°C	< -75
Flexural Modulus, Tangent - 16:1 span:depth, 12.7 mm/min	D790	MPa	1200

* 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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