



Lotrène®
POLYETHYLENE

Q TR-144

High Density Polyethylene Resin (HDPE)

DESCRIPTION AND USE

This high molecular weight hexene copolymer is designed for film applications. It has been formulated to provide:

- Good processability
- Good toughness and durability
- Good blending characteristics with HDPE HMW film resin

Typical applications include:

- Multi – wall liners
- T-shirt & shopping bags
- Trash bags

This resin meets these specifications:

- FDA Regulation 21CFR 177.1520. Suitable for food packaging.

NOMINAL PHYSICAL PROPERTIES	ASTM	UNIT	VALUE
Density	D1505	g/cm ³	0.946
Melt Index, condition 190 °C/2.16 kg	D1238	g/10min	0.18
HLMI, condition 190 °C/21.6 kg	D1238	g/10min	15
Flexural modulus, tangent	D790	MPa	1150
Brittleness temperature	D746	°C	<-75
Typical film properties* dart drop (66cm)	D1709	g	90
Spencer impact strength	D3420	J	0.35
Tensile yield strength, 50 mm/min	D882	MPa	MD: 24 TD: 26
Elongation at break, 50 mm/min	D882	%	MD: 480 TD: 640
Elmendorf tear strength	D1922	g	MD: 19 TD: 270

(* Based on 0.025 mm film produced at 4:1 blow-up ratio.)

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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