



# Lotrène® Q TR-144

POLYETHYLENE

## High Density Polyethylene Resin



### 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 <sup>3</sup>	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.

### TECHNICAL DISCLAIMER

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited for and the information is applicable to the user's specific application. Any data included herein is based upon analysis of representative samples in a laboratory environment and not the actual product shipped. The values indicated in this datasheet should not be used for specification purposes. The information in this document relates only to the named product or material when not in combination with any other product or materials. The information is based on data believed to be reliable on the date compiled. We do not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues for which any liability for infringement or alleged infringement are fully disclaimed, as well as any international laws which may be encountered in the use thereof. Such questions should be investigated by the user. Trademarks may not be used in any manner other than expressly authorized in a written agreement and no trademark or license rights of any kind are granted hereunder, by implication or otherwise.



April-2019