



# Lotrène® Q 50100

POLYETHYLENE

## High Density Polyethylene Resin

### 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
- Automotive 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 <sup>3</sup> | 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                                       | D1693           | h                 | >600  |
| Condition A, F <sub>50</sub> (100% Igepal) | D1693           | h                 | >600  |
| Condition B, F <sub>50</sub> (100% Igepal) |                 |                   |       |
| Tensile Yield Strength, 50 mm/min          | D638<br>Type IV | MPa               | 26    |
| Elongation at Break, 50 mm/min             | D638<br>Type IV | %                 | >600  |
| Brittleness Temperature                    | D746            | °C                | <-75  |
| Flexural Modulus, Tangent                  | D790            | MPa               | 1170  |
| Shore D Hardness                           | D2240           | -                 | 62    |

### TECHNICAL DISCLAIMER

The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

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.

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