



# Lotrène® Q 5202BN

POLYETHYLENE  
High Density Polyethylene Resin



## DESCRIPTION AND USE

This high molecular weight hexene copolymer is tailored for lightweight blow molded containers that require:

- Excellent stiffness & processability
- Exceptional ESCR
- Broad processing window

Typical applications include:

- Oil bottles
- Household & industrial chemical containers

- Toys & personal care products
- Bleach & detergents bottles

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)
- Listed in the Drug Master file

| NOMINAL PHYSICAL PROPERTIES                | ASTM            | UNIT              | VALUE |
|--|-----------------|-------------------|-------|
| Density                                    | D1505           | g/cm <sup>3</sup> | 0.951 |
| Melt Index, Condition 190 °C/2.16 kg       | D1238           | g/10min           | 0.35  |
| Condition 190 °C/21.6 kg                   | D1238           | g/10min           | 33    |
| ESCR                                       |                 |                   |       |
| Condition A, F <sub>50</sub> (100% Igepal) | D1693           | h                 | 50    |
| Condition B, F <sub>50</sub> (100% Igepal) | D1693           | h                 | 50    |
| 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               | 1310  |
| Shore D Hardness                           | D2240           | -                 | 63    |

## 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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