



**Lotrène®**  
POLYETHYLENE

**Q 5502BN**

High Density Polyethylene Resin (HDPE)

## DESCRIPTION AND USE

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

- Excellent stiffness
- Exceptional processability
- Exceptional stress cracking resistance

Typical applications include:

- Ice chest & coolers
- Household & industrial chemical containers
- Food packaging & pharmaceutical containers
- Bleach & detergents containers

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>	0.955
Melt Index, condition 190 °C/2.16 kg condition 190 °C/21.6 kg	D1238	g/10min	0.35 33
ESCR condition B, F <sub>50</sub> (100% Igepal)	D1693	h	24
Tensile yield strength, 50 mm/min	D638 Type IV	MPa	27
Elongation at break, 50 mm/min	D638 Type IV	%	>600
Brittleness temperature	D746	°C	<-75
Flexural modulus, tangent	D790	MPa	1370
Shore D hardness	D2240	-	63

*The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.*

## TECHNICAL DISCLAIMER

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