



Lotrène® Q 5502BN

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
- 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 ³	0.955
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 B, F50 (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.

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