



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 A, F ₅₀ (100% Igepal)	D1693	h	45
Condition B, F ₅₀ (100% Igepal)	D1693	h	35
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

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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