



High Density Polyethylene Resin

Technical Data Sheet

Lotrène® Q 5502BN

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

- Excellent stiffness
- Exceptional processability
- Exceptional stress cracking resistance

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)
- Listed in the Drug Master File

Typical applications include:

- Ice chest and coolers
- Household and industrial chemical containers
- Food packaging and Pharmaceutical containers

Nominal Physical Properties *	ASTM	Unit	Value
Density	D792	g/cm ³	0.955
Melt Index, Condition 190 C°/ 2.16 kgs	D1238	g/10min	0.35
ESCR Condition B, F ₅₀ (100% Igepal)	D1693	h	24
Tensile Yield Strength, 50.8 mm/min, Type IV bar	D638	MPa	27
Elongation at Break, 50.8 mm/min, Type IV bar	D638	%	600
Brittleness Temperature, Type A, Type I specimen	D746	°C	< -75
Flexural Modulus, Tangent – 16:1 span:depth, 12.7 mm/min	D790	MPa	1370

* The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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