



TECHNICAL DATA SHEET

HDPE 5502BN – (HIGH DENSITY POLYETHYLENE)

Product Description:

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

- Excellent stiffness
- Exceptional processability
- Durability
- Recyclability

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 off 21 CFR 176.170(c)
- Listed in the Drug Master File

Typical applications include:

- Ice chests and coolers • Household and industrial chemical containers • Food packaging
- Pharmaceuticals

Origin: SAUDI

➤ SAUDI POLYMER

<u>Physical</u>	<u>Test Method</u>	<u>Unit</u>	<u>Value</u>
Density	ASTM D1505	g/cm3	0.955
Flow Rate (MI, 190 °C/2.16 kg)	ASTM D1238	g/10 min	0.35 g
Tensile Strength at Yield, 2 in/min, Type IV bar	ASTM D638	MPa	27
Elongation at Break, 2 in/min, Type IV bar	ASTM D638	%	600
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	ASTM D790	MPa	1,370
ESCR, Condition B (100 % Igepal), F50	ASTM D1693	Hour	24
Brittleness Temperature, Type A, Type I specimen	ASTM D746	°C	< -75

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