

HDPE**HDPE HXB4505N****HIGH DENSITY POLYETHYLENE (HDPE)**

This high-density polyethylene grade is a blow-moulding resin characterized by high density, high modulus and good rigidity, together with excellent environmental stress-crack resistance (ESCR) and outstanding processability. It is engineered for blow moulding of automotive fuel tanks, where consistent hoop strength, dimensional stability and long-term permeation performance are required.

Typical Application

- Blow-moulded automotive fuel tanks

Product Characteristics

- High density and modulus for dimensional stability under load
- Excellent environmental stress-crack resistance (ESCR)
- Good processability for large-part blow moulding
- Suitable for medium- and large-sized hollow containers

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow (190°C/21.6kg)	ASTM D1238	6	g/10 min
Density		0.945	g/cm ³
Tensile Stress at Yield		23	MPa
Environmental Stress Crack Resistance (ESCR, 50°C, F50)		3750	h

1. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.

2. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.

3. A closely related sister grade sharing the same melt flow and density is separately published by the producer under an 'M' suffix with slightly different tensile and elongation values; the figures reported here are specific to the 'N'-suffix code.