

## High Density Polyethylene HDB8550

### Description:

HDB8550 is a natural high-density polyethylene copolymer designed for blow molding applications with excellent impact strength and high Environmental Stress Cracking Resistance (ESCR).

Industrial Standard Compliance *ASTM D3350*: Cell Classification **PE 445500A**.

This resin is recommended for use in applications that are required to meet *AASHTO M294* and *AASHTO M252* specifications.

### Applications:

Blow molding of large volume containers, Drums, Jerrycans, Corrugated pipes

### Processes:

Extrusion Blow Molding

### Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/21.6kg)	ASTM D1238	g/10 min	8
Density	ASTM D792	g/cm <sup>3</sup>	0.952

### Typical Properties<sup>1</sup>

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	24
Tensile Strength at Break	ASTM D 638	MPa	35
Strain at Yield	ASTM D 638	%	6
Strain at Break	ASTM D 638	%	545
Elasticity Modulus (Secant 1%)	ASTM D 638	MPa	1150
Flexural Modulus (Secant 1%)	ASTM D 790	MPa	1220
Izod Impact Strength <sup>3</sup>	ASTM D 256/A	J/m	325
Oxidative Induction Time (OIT, 200°C)	ASTM D 3895	min	120
ESCR (10% Igepal) <sup>2</sup>	ASTM D 1693	h	>1000
ESCR (100% Igepal) <sup>2</sup>	ASTM D 1693	h	>1000

<sup>1</sup> Test specimens from compression molded plaque according to ASTM D4703.

<sup>2</sup> Condition B.

<sup>3</sup> Test temperature at 23°C.

### Final Remarks

- It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
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