

# LANUFENE<sup>®</sup> HDB-5101

MI 0.15

High Density Polyethylene

Density 0.951

## Description

LANUFENE<sup>®</sup> HDB-5101 is a high density polyethylene resin intended for use primarily in blow molding applications. LANUFENE<sup>®</sup> HDB-5101 combines excellent environmental stress cracking resistance (ESCR) and toughness with good processability and melt strength.

## Typical Properties

Property <sup>(2)</sup>	ASTM Method	Unit	Value <sup>(1)</sup>
Melt Index, 190°C, 2.16kg	D1238	g/10min.	0.15
High Load Melt Index (MFI), 190°C, 21.6kg	D1238	g/10 min.	16.0
Density, @ 23°C	D1505	g/cm <sup>3</sup>	0.951
Ultimate Tensile Strength	D638	MPa	31
Elongation	D638	%	800
Notched Izod Impact	D256/A	J/m	180
Flexural Modulus	D790	MPa	1,130
Vicat Softening Temperature	D1505	°C	125
Low Temperature Brittleness	D746	°C	< -70
Environmental Stress Crack Resistance, F <sub>50</sub>	D1693	hrs	>500

1. Values are typical and should not to be interpreted as specification.

2. Test specimen prepared from compression molded sheet made according to ASTM D1926.

## Application

LANUFENE<sup>®</sup> HDB-5101 is recommended for blow molding of large bottles, pails, containers, water storage drums, and chemical shipping containers where good ESCR and toughness are needed.

LANUFENE<sup>®</sup> HDB-5101 can be used in pipes application such as portable water distribution pipes, irrigation pipes, conduit pipes, etc.



Ras Lanuf Oil & Gas Processing Co.