

Producer: Ras Lanuf Oil & Gas Processing Company (RASCO) / Libya

## LANUFENE HDB-5101

### Description:

**LANUFENE HDB 5101** is a high density polyethylene resin intended for use primarily in blow molding applications.

**LANUFENE HDB 5101** combines excellent environmental stress cracking resistance (ESCR) and toughness with good processability and melt strength.

### Application:

**LANUFENE 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.

irrigation pipes, conduit pipes, etc.

### Typical Properties:

PROPERTY <sup>(2)</sup>	ASTM METHOD	UNIT	VALUE <sup>(1)</sup>
Melt Index, 190°C, 21.6 kg	D1238	g/10 min	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	H <sub>rs</sub>	> 500

### Processing Conditions:

**LANUFENE HDB 5101** can be processed by conventional HDPE extrusion blow molding machinery. Recommended melt temperature is 180 - 230°C.

### Food Contact Regulations:

**LANUFENE HDB 5101** complies with food packing and food regulations in most countries. If required, please contact us for details.

### Storage & Handling:

**LANUFENE HDB 5101** should be stored in dry conditions at temperature below 50°C and protected from UV-light. Improper storage can initiate degradation with resulting order generation and color changes.

### Safety:

**LANUFENE HDB 5101** is not classified a dangerous preparation. Material Safety Data Sheet is available upon request.

### Packaging:

The standard packaging of **LANUFENE HDB 5101** is 25kg PE FFS bag with pallet and PE shrink wrapping. Big bags, 500/1,000kg, are available.