

Lanufene HBD-5101

High Density Polyethylene
Ras Lanuf Oil & Gas Processing Company (RASCO)

Message:

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 process-ability and melt strength. 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. LANUFENE HDB 5101 can be used in pipes application such as portable water distribution pipes, irrigation pipes, conduit pipes, etc.

General Information			
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Processability		
	Good Toughness		
	High ESCR (Stress Crack Resist.)		
Uses	Blow Molding Applications		
	Bottles		
	Containers		
	Drums		
	Pails		
	Piping		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.15	g/10 min	
190°C/21.6 kg	16	g/10 min	
Environmental Stress-Cracking Resistance (F50)	> 500	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Flexural Modulus	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	180	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 230	°C	

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Recommended distributors for this material

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