

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

LANUFENE HDF-5116

Description:

LANUFENE HDF 5116 is a high density polyethylene copolymer designed primarily for conversion into tough thin gauged blown films exhibiting high stiffness with good process-ability.

Application:

LANUFENE HDF 5116 is suitable for general purpose of medium strength HDPE film applications such as bags, liners, barrier film, agricultural mulching film, Co-extrusion film, etc.

Typical Properties:

PROPERTY ⁽²⁾	ASTM METHOD	UNIT	VALUE ⁽¹⁾
Resin Properties ⁽²⁾			
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 ³	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
Film Properties ⁽³⁾			
Tensile Strength at Break, MD/TD	D882	Mpa	35/32
Elongation at Break, MD/TD	D882	%	350/500
1% Secant Modulus, MD/TD	D882	Mpa	1,400/1,700
Dart Impact, F ₅₀	D1709/A	g	25

^{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.

^{3.} - The film property has been measured on 15µm film thickness, 5:1 blow-up ratio

Processing Conditions:

LANUFENE HDF 5116 can be processed by conventional HDPE blown film extruder. A good balance of film properties is achieved at 4.0 – 6.0 of Blow-Up and 6 – 9 x Die Diameter of Neck Height. Recommended melt temperature is 180 - 220°C.

Food Contact Regulations: **LANUFENE HDF 5116** complies with food packing and food regulations in most countries. If required, please contact us for details.

Storage & Handling: **LANUFENE HDF 5116** 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 HDF 5116** is not classified a dangerous preparation. Material Safety Data Sheet is available upon request.

Packaging: The standard packaging of **LANUFENE HDF 5116** is 25kg PE FFS bag with pallet and PE shrink wrapping. Big bags, 500/1,000kg, are available.