Lanufene HDF-5116

High Density Polyethylene

Ras Lanuf Oil & Gas Processing Company (RASCO)

Message:

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.
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.

General Information	
Features	Food Contact Acceptable Good Melt Strength Good Processability Good Toughness High ESCR (Stress Crack Resist.)
Uses	Agricultural Applications Bags Film Food Packaging Liners
Forms	Pellets
Processing Method	Blown Film Coextrusion Filament Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm³	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
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	15	µm	
Secant Modulus			ASTM D882

1% Secant, MD : 15 µm	1400	MPa	
1% Secant, TD : 15 µm	1700	MPa	
Tensile Strength			ASTM D882
MD : Break, 15 µm	35.0	MPa	
TD : Break, 15 µm	32.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 15 µm	350	%	
TD : Break, 15 µm	500	%	
Dart Drop Impact (15 µm)	25	g	ASTM D1709A
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 220	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China