CERTENE™ LLHG-1522A

Linear Low Density Polyethylene

Muehlstein

Message:

LLHG-1522A is a certified prime grade Ethylene-Hexene Copolymer High Molecular Weight specially developed for Geomembrane extrusion applications requiring outstanding balance of optimal ESCR, Toughness, and excellent Flexibility. LLHG-1522A offers very good processability, broad fusion range, excellent melt strength, and improved output and texture appearance surface. LLHG-1522A major applications include landfill covers and caps, coextruded cap layers for HDPE, tubular and flat die projects, blends with HDPE, and as carrier resin for Masterbatch compounds. LLHG-1522A contains no slip or antiblock, and complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information				
Features	High ESCR (Stress Cracking Resistance) High molecular weight Copolymer hexene comonomer Workability, good Good melt strength			
	Good flexibility			
	Good toughness			
	Compliance of Food Exposure			
Uses	Geo Membranes			
	Industrial application			
	Shield			
	Mixing			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a			
Forms	Particle			
Processing Method	Co-extrusion molding			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.922	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR)			ASTM D1238	
190°C/2.16 kg	0.14	g/10 min	ASTM D1238	
190°C/21.6 kg	15	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance				
F50	> 1500	hr	ASTM D1693	
50°C, 1.75 mm, 10% Igepal, F50 ¹	> 1500	hr	ASTM D1693B	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ² (Yield)	12.4	MPa	ASTM D638	

Tensile Elongation ³ (Break)	750	%	ASTM D638	
Flexural Modulus - 1% Secant ⁴	483	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Tensile Impact Strength	799	kJ/m²	ASTM D1822	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (1.8				
MPa, Unannealed)	51.0	°C	ASTM D648	
Brittleness Temperature	< -75.0	°C	ASTM D746	
Vicat Softening Temperature	104	°C	ASTM D1525	
Peak Melting Temperature	121	°C	ASTM D3417	
Additional Information				
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.				
NOTE				
1.	Notched bent strip			
2.	50 mm/min			
3.	50 mm/min			
4.	1.3 mm/min			

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