

CERTENE™ LLBF-221D

Linear Low Density Polyethylene
Muehlstein

Message:

LLBF-121D is a certified prime resin containing Butene-comonomer, specially designed for production of Blown films for general purpose packaging. LLBF-121D features easy processability with very good film strength as well as wide heat sealing temperature range. LLBF-121D major applications include garment bags, produce bags and liners. Maximum recommended film drawdown is 0.5 mil. LLBF-121D contains medium slip and high antiblock.

General Information			
Additive	Moderate caking resistance		
	Moderate smoothness		
Features	Low density		
	High caking resistance		
	Workability, good		
	Good heat sealability		
	General		
	Moderate smoothness		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	General		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm	215	MPa	ASTM D882
1% secant, TD: 25 µm	250	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	12.0	MPa	ASTM D882
TD: Yield, 25 µm	11.0	MPa	ASTM D882
MD: Break, 25 µm	45.0	MPa	ASTM D882
TD: Break, 25 µm	30.0	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Break, 25 μ m	650	%	ASTM D882
TD: Break, 25 μ m	990	%	ASTM D882
Dart Drop Impact (25 μ m)	85	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μ m	80	g	ASTM D1922
TD : 25 μ m	550	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 μ m)	65		ASTM D2457
Haze (25.4 μ m)	7.0	%	ASTM D1003
Additional Information			
This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.			
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 220	°C	

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