

CERTENE™ LLBI-2024

Linear Low Density Polyethylene
Muehlstein

Message:

LLBI-2024 is a certified prime grade containing Butene-ethylene copolymer, designed for INJECTION MOLDING applications requiring good balance of low warpage, low temperature resistance, and good mechanical properties. LLBI-2024 features easy processability over a wide range of molding conditions, good flexibility, and high surface appearance of molded articles. LLBI-2024 applications include housewares, lids, closures, caps, medical parts, and toys, where excellent toughness, high impact strength and high gloss are required. Recommended processing temperature is 180 to 220°C., with mold at 20 to 40°C.. LLBI-2024 complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Low warpage		
	Butene comonomer		
	Highlight		
	Impact resistance, high		
	Workability, good		
	Good flexibility		
	Low temperature impact resistance		
	Good toughness		
	Compliance of Food Exposure		
	Good appearance		
Uses	Cover		
	Shield		
	Household goods		
	Shell		
	Toys		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 1.75 mm, 100% Igepal, F50)	19.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	12.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	500	%	ASTM D638

Flexural Modulus - 1% Secant ⁴	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	71.5	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
Vicat Softening Temperature	93.0	°C	ASTM D1525
Additional Information			
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	20.0 - 40.0	°C	
NOTE			
1.	Notched bent strip		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		

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