

CERTENE™ LLBI-5526

Linear Low Density Polyethylene
Muehlstein

Message:

LLBI-5526 is a certified prime grade, containing Butene-ethylene copolymer designed for High-Flow INJECTION MOLDING of thin-walled high quality applications. LLBI-5526 features superior processability over a wide range of molding conditions, fast cycle times, very good rigidity, high gloss surface, low temperature toughness, and warpage free moldings. LLBI-5526 applications include housewares, margarine tubs, small to medium containers, trash cans, toys, and multicavity lids, closures and caps, where excellent toughness, good impact strength and high gloss are required. Recommended processing temperature is 170 to 210°C., with mold at 20 to 40°C. LLBI-5526 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		
	Low Temperature Flexibility		
	Butene comonomer		
	Rigidity, high		
	Highlight		
	Impact resistance, high		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Good toughness		
	Compliance of Food Exposure		
Uses	Thin wall parts		
	Cover		
	Shield		
	Household goods		
	Container		
	Food container		
	Shell		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	55	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹ (50°C, 1.75 mm, 100% Igepal, F50)	5.00	hr	ASTM D1693

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	13.8	MPa	ASTM D638
Tensile Elongation ³ (Break)	100	%	ASTM D638
Flexural Modulus - 1% Secant ⁴	517	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	52.5	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Vicat Softening Temperature	92.0	°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	170 - 210	°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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