

# CERTENE™ LLBD-2024G

Linear Low Density Polyethylene  
Muehlstein

## Message:

LLBD-2024G is a certified prime Butene-ethylene copolymer, designed for COMPOUNDING applications requiring good melt viscosity and good melt flow to assure thorough mixing and dispersion of components. LLBD-2024G features medium melt flow, easy processability, wide process window, and improved dispersion capability. LLBD-2024G applications include distributive melt mixing of additives and color concentrates, Master-Batches, and tailoring compounds to property requirements of a given end-use. LLBD-2024G is supplied in granular form. Suggested processing temperature is 180° to 220°C. LLBD-2024G complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Butene comonomer		
	Copolymer		
	Dispersible		
	Workability, good		
	Medium liquidity		
	Compliance of Food Exposure		
	Medium viscosity		
Uses	Composite		
	Mixing		
	Masterbatch		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particles		
Processing Method	Composite		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance <sup>1</sup> (50°C, 3.00mm, 100% Igepal, molded, F50)	150	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, Compression Molded)	12.4	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	300	%	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup> (Compression Molded)	448	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	71.5	kJ/m <sup>2</sup>	ASTM D1822

#### 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

#### NOTE

1.	Non-slit strip
2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min

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#### Recommended distributors for this material

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