CERTENE™ LLMF-116D

Metallocene Linear Low Density Polyethylene

Muehlstein

Message:

LLMF-116D is a certified prime resin designed for production of Blown films needing excellent optics, superior film strength and excellent heat seal performance. LLMF-116D applications include heavy duty packaging, ice bags and sealant layer in coextrusions. LLMF-116D contains medium slip, high antiblock and process aid. LLMF-116D complies with FDA regulation 21CFR 177.1520(c)3.2a, conditions of use B-H.

General Information	
Additive	High caking resistance Processing aid Moderate smoothness
Features	High caking resistance Optical Good strength Good heat sealability Compliance of Food Exposure Moderate smoothness
Uses	Packaging Films Bags Optical applications
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a 1
Forms	Particle
Processing Method	Blow film Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.916	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.4	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	172	MPa	ASTM D882
1% secant, TD: 25 µm	190	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	13.1	MPa	ASTM D882

TD: Yield, 25 µm	9.93	MPa	ASTM D882
MD: Break, 25 µm	52.7	MPa	ASTM D882
TD: Break, 25 µm	46.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	480	%	ASTM D882
TD: Break, 25 µm	600	%	ASTM D882
Dart Drop Impact [1] (25 µm)	800	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	230	g	ASTM D1922
TD : 25 µm	500	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, 25.4 µm, Blown Film)	93		ASTM D2457
Haze (25.4 µm, Blown Film)	11	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film; blow-up-ratio 2.5 :1; Melt temperature 400°F			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	204	°C	
NOTE			
1.	F50		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China