Technical Information

CEFOR™ 1211P
Linear Low Density Polyethylene Resin

Overview

CEFOR 1211P is a butene Linear Low Density Polyethylene for general blown film applications.

Main Characteristics:
- Used in Industrial, Food & Specialty Packaging
- Better optics and processability
- Better color stability
- Good sealing performance

Complies with:
- U.S. FDA 21 177.1520 (c) 3.2a
- EU. No 10/2011

Consult the regulations for complete details.

Additive:
- Antiblock: No
- Slip: No
- Processing Aid: No

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Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.918	g/cm³	0.918	g/cm³	ASTM D792
Base Density [1]	0.918	g/cm³	0.918	g/cm³	Dow Method
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ISO 1133
Films	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Film Thickness - Tested	2	mil	51	µm	
Film Puncture Resistance (2.0 mil (51 µm))	99.0	ft·lb/in³	8.19	J/cm³	Dow Method
Secant Modulus					ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	26600	psi	183	MPa	
2% Secant, TD : 2.0 mil (51 µm)	31500	psi	217	MPa	
Tensile Strength					ASTM D882
MD : Yield, 2.0 mil (51 µm)	1500	psi	10.3	MPa	
TD : Yield, 2.0 mil (51 µm)	1600	psi	11.0	MPa	
MD : Break, 2.0 mil (51 µm)	4600	psi	31.7	MPa	
TD : Break, 2.0 mil (51 µm)	3630	psi	25.0	MPa	
Tensile Elongation					ASTM D882
MD : Break, 2.0 mil (51 µm)	660	%	660	%	
TD : Break, 2.0 mil (51 µm)	710	%	710	%	
Dart Drop Impact (2.0 mil (51 µm))	100	g	100	g	ASTM D1709A
Elmendorf Tear Strength					ASTM D1922
MD : 2.0 mil (51 µm)	110	g	110	g	
TD : 2.0 mil (51 µm)	260	g	260	g	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	214	°F	101	°C	ASTM D1525
Melting Temperature (DSC)	241	°F	116	°C	Dow Method
Optical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Gloss (20°, 2.00 mil (50.8 µm))	69		69		ASTM D2457
Haze (2.00 mil (50.8 µm))	11.0	%	11.0	%	ASTM D1003

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