

LDC1821

Melt Index 1.8

Density 0.921

Material Properties - Industrial Clarity

Properties ¹	Test Method	Unit	Typical Value
Melt Index	D 1238	g/10 min	1.8
Density	D 1505	g/cc	0.921
Vicat Softening Point	D 1525	°C	100
Film*			
Haze ¹	D 1003	%	5.0
Gloss, 45° ¹	D 2457	units	70
Dart Drop Impact Strength, F ₅₀	D 1709	g	90
Tensile Strength @ Yield, MD (TD)	D 882	psi	1,500 (1,600)
Tensile Strength @ Break, MD (TD)	D 882	psi	4,000 (3,400)
Elongation, MD (TD)	D 882	%	300 (500)
1% Secant Modulus, MD (TD)	D 882	psi	26,000 (30,000)
Elmendorf Tear Strength, MD (TD)	D 1922	g	360 (200)

* Data obtained from film produced on a 3½" (89mm) blown film line, commercially available 8" (203 mm) die, 375°F (191°C) melt extrusion temperature 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 130 lb/hr.

¹ Optical properties given for LDC1821SA (medium slip, medium antiblock)

These are typical values not to be construed as specification limits.

Product	LDC1821	LDC1821A	LDC1821SA
Slip (ppm)	None	None	750
Antiblock (ppm)	None	1,500	1,500

- LDC1821 is a series of homopolymer resins that combine premium clarity with strength and stiffness. It exhibits good impact strength on both flat and creased film. It is recommended for textile packaging, light produce, bread bags and other thin packaging films enhanced by clarity and sparkle.
- Osterlene LDC1821 meets the requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply. Contact your Osterman sales representative for more information.
- Specific recommendations for processing can only be made when the processing conditions, equipment and end use are known. Consult your Osterman sales Representative.