

LLDPE FN400

YUCLAIR FN400 is butene-1 copolymer designed for use in food wrap film application. YUCLAIR FN400 provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FN400 shows superior tensile strength, tear strength, gel-free, cling property. Outstanding clarity and good processibility make this resin an ideal choice for film application when blended with conventional LDPE.

YUCLAIR FN400 can be processed readily into blown film using standard extrusion techniques.

YUCLAIR FN400 complies with FDA regulations in 21 CFR177.1520 for all food contact.

Application / Use Case

Film / food wrap

Specification

	Specification	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Index	1.0	g/10min	ASTM D1238
Additives	-		SK Method

Physical Properties

	Value	Unit	Test Method
Film Thickness	50	μm	ASTM D746
Tensile Strength at Yield(MD)	120	kg/cm ²	ASTM D882
Tensile Strength at Yield(TD)	110	kg/cm ²	ASTM D882

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Tensile Strength at Break(MD)	430	kg/cm ²	ASTM D882
Tensile Strength at Break(TD)	360	kg/cm ²	ASTM D882
Elongation at Break(MD)	750	%	ASTM D882
Elongation at Break(TD)	850	%	ASTM D882
Elmendorf Tear Strength(MD)	5	g/μm	ASTM D1922
Elmendorf Tear Strength(TD)	12	g/μm	ASTM D1922
Spencer Impact Strength	10	kg·cm	ASTM D3420
Haze	17	%	ASTM D1003
Softening Point(Vicat)	102	°C	ASTM D1525
Brittleness Temperature	<-70	°C	ASTM D746

These are typical properties only, and are not to be construed as specific limits.