

# LLDPE FU149S

YUCLAIR FU149S is butene-1 copolymer designed for use in general purpose film application. YUCLAIR FU149S shows superior tensile strength, tear strength, antiblock, and sealability. Outstanding clarity and good processibility make this resin an ideal choice for film application when blended with conventional LDPE. YUCLAIR FU149S can be processed readily into blown film using standard extrusion techniques. YUCLAIR FU149S complies with FDA regulations in 21 CFR177.1520 for all food contact.

## Application / Use Case

Film / film, LDPE Blending

## Specification

	Specification	Unit	Test Method
Density	0.919	g/cm <sup>3</sup>	ASTM D1505
Melt Index	1.0	g/10min	ASTM D1238
Additives	S, A/B		SK Method

## Physical Properties

	Value	Unit	Test Method
Film Thickness	50	μm	ASTM D746
Softening Point(Vicat)	102	°C	ASTM D1525
Tensile Strength at Yield(MD)	120	kg/cm <sup>2</sup>	ASTM D882
Tensile Strength at Yield(TD)	110	kg/cm <sup>2</sup>	ASTM D882
Tensile Strength at Break(MD)	430	kg/cm <sup>2</sup>	ASTM D882
Tensile Strength at Break(TD)	360	kg/cm <sup>2</sup>	ASTM D882

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Elongation at Break(MD)	750	%	ASTM D882
Elongation at Break(TD)	850	%	ASTM D882
Brittleness Temperature	<-70	°C	ASTM D746
Haze	20	%	ASTM D1003
Spencer Impact Strength	10	kg-cm	ASTM D3420
Elmendorf Tear Strength(MD)	5	g/μm	ASTM D1922
Elmendorf Tear Strength(TD)	12	g/μm	ASTM D1922

Note :

Film Extrusion Condition : Screw dia 50, Die dia 150, BUR 2.2

Temp : Screw 170-190-190 Die 190-195

Die gap 1.8, Screw RPM 45, L/S 7.2

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

