

LLDPE FA440U

YUCLAIR FA440U is butene-1 copolymer designed for use in agricultural mulching film application. YUCLAIR FA440U provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FA440U shows superior tensile strength, tear strength, gel-free, weatherability. Outstanding processibility make this resin an ideal choice for film application when blended with conventional LDPE. YUCLAIR FA440U can be processed readily into blown film using standard extrusion techniques.

YUCLAIR FA440U complies with FDA regulations in 21 CFR177.1520 for all food contact.

Application / Use Case

Film / mulching film for agriculture

Specification

	Specification	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Index	1	g/10min	ASTM D1238
Additives	S, A/B, UV		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 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
Tear Strength(MD)	5	g/μm	ASTM D1922
Tear Strength(TD)	12	g/μm	ASTM D1922
Spencer Impact Strength	10	kg·cm	ASTM D3420
Haze	23	%	ASTM D1003
Brittleness Temperature	< -70	°C	ASTM D746

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

