

# LLDPE FV149M

YUCLAIR FV149M is butene-1 copolymer designed for use in general purpose film application. YUCLAIR FV149M provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FV149M shows superior tensile strength, tear strength, gel-free, antiblock and sealability. Outstanding clarity and good processibility make this resin an ideal choice for film application when blended with conventional LDPE. YUCLAIR FV149M can be processed readily into blown film using standard extrusion techniques. YUCLAIR FV149M 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	1.8	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)	380	kg/cm <sup>2</sup>	ASTM D882

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Tensile Strength at Break(TD)	350	kg/cm <sup>2</sup>	ASTM D882
Elongation at Break(MD)	790	%	ASTM D882
Elongation at Break(TD)	870	%	ASTM D882
Tear Strength(MD)	3	g/μm	ASTM D1922
Tear Strength(TD)	8	g/μm	ASTM D1922
Spencer Impact Strength	8	kg-cm	ASTM D3420
Haze	23	%	ASTM D1003
Brittleness Temperature	<-70	°C	ASTM D746

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