

YUCLAIR® FU149M

Linear Low Density Polyethylene

SK Global Chemical

Message:

YUCLAIR FU149M is butene-1 copolymer designed for use in general purpose film application.

YUCLAIR FU149M provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FU149M 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 FU149M can be processed readily into blown film using standard extrusion techniques.

YUCLAIR FU149M complies with FDA regulations in 21 CFR177.1520 for all food contact.

General Information	
Additive	Anti-caking agent slip agent
Features	High tensile strength Copolymer smoothness Anti-caking property Workability, good Good tear strength Definition, high Compliance of Food Exposure
Uses	Films Mixing General
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Blow film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	ASTM D746
Tensile Strength			ASTM D882
MD: Yield, 50 μm	11.8	MPa	ASTM D882
TD: Yield, 50 μm	10.8	MPa	ASTM D882
MD: Break, 50 μm	42.2	MPa	ASTM D882

TD: Break, 50 μm	35.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 μm	750	%	ASTM D882
TD: Break, 50 μm	850	%	ASTM D882
Spencer Impact (50.0 μm)	0.981	J	ASTM D3420
Tear Strength			ASTM D1922
MD : 50.0 μm	49.0	kN/m	ASTM D1922
TD : 50.0 μm	117.7	kN/m	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	102	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Haze	20	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 5 Temp.	190	°C	
Die Temperature	190 - 195	°C	
Extrusion instructions			

Film Extrusion Condition: Screw dia 50, Die dia 150, BUR 2.2Die gap 1.8, Screw RPM 45, L/S 7.2

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

