

YUCLAIR® FN400

Linear Low Density Polyethylene

SK Global Chemical

Message:

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 processability 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.

General Information	
Features	Butene Comonomer
	Food Contact Acceptable
	Good Processability
	Good Tear Strength
	High Clarity
	High Cling
	High Tensile Strength
Uses	Blending
	Film
	Food Wrap
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Blown 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)	1.0	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	
TD : Yield,50 µm	10.8	MPa	
MD : Break, 50 µm	42.2	MPa	
TD : Break, 50 µm	35.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm	750	%	
TD : Break, 50 µm	850	%	

Elmendorf Tear Strength			ASTM D1922
MD	49.0	kN/m	
TD	117.7	kN/m	
Spencer Impact	0.981	J	ASTM D3420
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 (50.0 μm)	17	%	ASTM D1003

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