

YUCLAIR® FG400

Linear Low Density Polyethylene

SK Global Chemical

Message:

YUCLAIR FG400 is butene-1 copolymer designed for use in food wrap film application. YUCLAIR FG400 provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FG400 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 FG400 can be processed readily into blown film using standard extrusion techniques. YUCLAIR FG400 complies with FDA regulations in 21 CFR177.1520 for all food contact.

General Information			
Features	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	Good Tear Strength		
	High Clarity		
	High Cling		
	High Tensile Strength		
Uses	Blending		
	Film		
	Food Wrap		
	General Purpose		
	Non-specific Food Applications		
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 D882
Tensile Strength			
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	%	
Spencer Impact (50.0 µm)	0.981	J	ASTM D3420
Tear Strength			ASTM D1922
MD	49.0	kN/m	
TD	117.7	kN/m	
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	17	%	ASTM D1003

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