

YUCLAIR® FT400

Linear Low Density Polyethylene

SK Global Chemical

Message:

YUCLAIR FT400 is butene-1 copolymer designed for use in food wrap and casting type packaging film application. YUCLAIR FT400 provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FT400 shows superior processibility, gel-free, cling property. YUCLAIR FT400 can be processed readily into casting film using standard extrusion techniques. YUCLAIR FT400 complies with FDA regulations in 21 CFR177.1520 for all food contact.

General Information			
Features	Butene comonomer		
	High adhesion		
	Copolymer		
	Workability, good		
	Definition, high		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Electrical/Electronic Applications		
	cast film		
	Food packaging		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	ASTM D746
Tensile Strength			ASTM D882
MD: Yield, 30 µm	10.8	MPa	ASTM D882
TD: Yield, 30 µm	10.8	MPa	ASTM D882
MD: Break, 30 µm	34.3	MPa	ASTM D882
TD: Break, 30 µm	31.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	830	%	ASTM D882
TD: Break, 30 µm	850	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922

MD : 30 μm	90	g	ASTM D1922
TD : 30 μm	180	g	ASTM D1922
Spencer Impact (30.0 μm)	1.27	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 (30.0 μm)	2.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 3 Temp.	230	°C	
Cylinder Zone 5 Temp.	230	°C	
Die Temperature	230	°C	
Extrusion instructions			

Film Extrusion Condition: Screw dia 50, Die width 450Die gap 0.8, Screw RPM 31, L/S 7

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