

# YUCLAIR® FN812

Linear Low Density Polyethylene

SK Global Chemical

Message:

YUCLAIR FN812 is octene-1 copolymer designed for use in dry lamination film application.

YUCLAIR FN812 provides stronger film than ones made from competitive LLDPE film grades. Therefore YUCLAIR FN812 shows superior tensile strength, tear strength, gel-free, antiblock and sealability. YUCLAIR FN812 contains optimum of additives and is thus ideally suitable as a LLDPE resin for lamination film.

YUCLAIR FN812 can be processed readily into blown film using standard extrusion techniques.

YUCLAIR FN812 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 Good tear strength Compliance of Food Exposure Octene comonomer
Uses	Packaging Films Laminate Industrial application
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Blow film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	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	53.9	MPa	ASTM D882

TD: Break, 50 µm	49.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 µm	700	%	ASTM D882
TD: Break, 50 µm	800	%	ASTM D882
Spencer Impact	1.27	J	ASTM D3420
Tear Strength			ASTM D1922
MD	147.1	kN/m	ASTM D1922
TD	196.1	kN/m	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	102	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Haze (50.0 µm)	11	%	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

