



Data Sheet
Date Prepared:

LLDPE FN812

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.

Application / Use Case

Film / Advanced packaging, industrial film

Specification

	Specification	Unit	Test Method
Density	0.919	g/cm ³	ASTM D1505
Melt Index	0.90	g/10min	ASTM D1238
Additives	S, A/B		SK Method

Physical Properties

	Value	Unit	Test Method
Film Thickness	50	μm	ASTM D746
Softening Point(Vicat)	102	°C	ASTM D1525
Tensile Strength at Yield(MD)	120	kg/cm ²	ASTM D882
Tensile Strength at Yield(TD)	110	kg/cm ²	ASTM D882
Tensile Strength at Break(MD)	550	kg/cm ²	ASTM D882

Head Office 99 Seorin-dong, Jongno-gu, Seoul 110-110, Korea
Tel. 82-2-2121-5114 Fax. 82-2-2121-7001
SK Institute of 140-1 Woncheon-dong, Yuseong-gu, Taejeon, Korea
Technology Tel. 82-42-866-7624 Fax. 82-42-866-7603
Online SK energy co., ltd. : www.SKenergy.com
Chemical Business : www.skchem.com

ISO 9001 Certified



Tensile Strength at Break(TD)	500	kg/cm ²	ASTM D882
Elongation at Break(MD)	700	%	ASTM D882
Elongation at Break(TD)	800	%	ASTM D882
Tear Strength(MD)	15	g/μm	ASTM D1922
Tear Strength(TD)	20	g/μm	ASTM D1922
Spencer Impact Strength	13	kg·cm	ASTM D3420
Haze	11	%	ASTM D1003
Brittleness Temperature	<-80	°C	ASTM D746

These are typical properties only, and are not to be construed as specific limits.

Note :

Film Extrusion Condition : Screw dia 50, Die dia 150, BUR 2.2

Temp : Screw 170-190-190 Die 190-195

Die gap 1.8, Screw RPM 45, L/S 7.2

Head Office 99 Seorin-dong, Jongno-gu, Seoul 110-110, Korea
 Tel. 82-2-2121-5114 Fax. 82-2-2121-7001
 SK Institute of 140-1 Woncheon-dong, Yuseong-gu, Taejeon, Korea
 Technology Tel. 82-42-866-7624 Fax. 82-42-866-7603
 Online SK energy co., ltd. : www.SKenergy.com
 Chemical Business : www.skchem.com

ISO 9001 Certified