

## LyondellBasell Pro-fax SA861 Polypropylene Random Copolymer, Cast Film Extrusion

Category : Polymer , Film , Thermoplastic , Polypropylene (PP)

### Material Notes:

**Key Features:** polypropylene random copolymer resin formulated for cast film extrusion, good optical properties, excellent slip properties, FDA acceptable, improved cold temperature impact resistance  
**Applications:** bags for hosiery, packaging for produce, sheet protectors, photograph pockets, card display sleeves  
**Meets FDA requirements in 21 CFR 177.1520 for all food contact, including cooking applications.**  
**Description:** Pro-fax SA861 polypropylene random copolymer resin, formulated with slip and antilock, is designed for cast film packaging applications. Cast film made with this resin has exceptional clarity and gloss, as well as improved cold temperature impact resistance and broader heat seal range compared to homopolymer polypropylene. This resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.520 for all food contact, including cooking applications. All ingredients meet the chemical registration requirements of TSCA and DSL. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Pro-fax-SA861-Polypropylene-Random-Copolymer-Cast-Film-Extrusion.php](http://www.lookpolymers.com/polymer_LyondellBasell-Pro-fax-SA861-Polypropylene-Random-Copolymer-Cast-Film-Extrusion.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D792B
Thickness	25.4 microns	1.00 mil	
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 230 °C	6.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Film Elongation at Break, TD	710 %	710 %	ASTM D882A
Elongation at Yield	13 %	13 %	ASTM D638
Flexural Modulus	0.920 GPa	133 ksi	1% secant at 0.05 in/min; ASTM D790A
Secant Modulus, MD	0.655 GPa	95.0 ksi	Film; 1% secant; ASTM D882A
Secant Modulus, TD	0.621 GPa	90.1 ksi	1% secant; ASTM D882A
Izod Impact, Notched	0.560 J/cm	1.05 ft-lb/in	ASTM D256A
Coefficient of Friction	0.15 - 0.25	0.15 - 0.25	ASTM D1894
Elmendorf Tear Strength MD	25 g	25 g	ASTM D1922A
Elmendorf Tear Strength TD	500 g	500 g	ASTM D1922A

Elmendorf Tear Strength, MD Mechanical Properties	0.984 g/micron Metric	25.0 g/mil English	ASTM D1922A Comments
Elmendorf Tear Strength, TD	19.7 g/micron	500 g/mil	ASTM D1922A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Â°C	169 Â°F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003A
Gloss	80 - 85 %	80 - 85 %	at 45Â°; ASTM D2457

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China