

# Pro-fax SA861

Polypropylene Random Copolymer  
LyondellBasell Industries

Message:

Pro-fax SA-861 polypropylene random copolymer resin, formulated with slip and antiblock, 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.

Typical applications include bags for hosiery, shirts and other textiles, produce packaging, sheet protectors, photograph pockets and card display sleeves. For regulatory compliance information see Pro-fax SA861 Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS).

General Information			
Additive	Antiblock		
	Slip		
Features	Antiblocking		
	Heat Sealable		
	High Clarity		
	High Gloss		
	Opticals		
	Random Copolymer		
	Slip		
Uses	Bags		
	Cast Film		
	Film		
	Food Packaging		
	Packaging		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant <sup>1</sup>	896	MPa	ASTM D790A
Coefficient of Friction	0.15 to 0.25		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Secant Modulus			ASTM D882

1% Secant, MD : 25 µm	655	MPa	
1% Secant, TD : 25 µm	621	MPa	
Tensile Strength			ASTM D882
MD : Yield,25 µm	49.0	MPa	
TD : Yield,25 µm	32.4	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 µm	730	%	
TD : Break, 25 µm	710	%	
Dart Drop Impact			ASTM D1709
0°C, 25 µm	360	g	
23°C, 25 µm	1900	g	
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	25	g	
TD : 25 µm	500	g	
Seal Initiation Temperature (25 µm)	135	°C	
Dart Drop Test			ASTM D1709
0°C, 25.0 µm	35.6	J/cm	
23°C, 25.0 µm	187	J/cm	
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (23°C)	69	J/m	ASTM D256A
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.1	°C	ASTM D648
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss (45°, 25.0 µm)	80 to 85		ASTM D2457
Haze (25.0 µm)	3.0	%	ASTM D1003
<b>NOTE</b>			
1.	1.0 mm/min		

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