

## Technical Data

产品说明	
YUPLENE® B330F	YUPLENE B330F is a propylene impact copolymer designed for injection molding applications. YUPLENE B330F has excellent toughness, good dimensional stability and has been listed by Underwriters Laboratories (UL). YUPLENE B330F is suitable for household articles, chairs, containers and automobile parts. YUPLENE B330F complies with FDA regulation 21 CFR177.1520.
Pro-fax SB912	Pro-fax SB912 fully formulated impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers homopolymer-like stiffness.  For regulatory compliance information see Pro-fax SB912 Product Stewardship Bulletin (PSB).
Clyrell EC2340	Clyrell EC2340 is an heterophasic copolymer specially designed for film applications. Clyrell EC2340 films are characterized by an excellent balance of toughness, low temperature impact, mechanical properties, very good optical properties, easy processing and low stress whitening. Major Clyrell EC2340 applications are extrusion of films for food packaging, lamination, adhesive tapes, labeling films, thermoformed containers, stationery and protective films. Clyrell EC2340 contains no slip or antiblocking agents. Clyrell EC2340 may not need coextrusion with random copolymers to give a good clarity film.  For regulatory information please refer to Clyrell EC2340 Product Stewardship Bulletin (PSB).
TOTAL Polypropylene PPC 3660	Total Petrochemicals PPC 3660 is a heterophasic copolymer polypropylene with a Melt Flow Index of 1.3 g/min for the cast extrusion of films with superior mechanical properties and retort-able.  Polypropylene PPC 3660 is characterized by a low fluidity hence good melt strength to provide ease of processing and good manufactured article properties.  Polypropylene PPC 3660 is intended for applications like food packaging, lamination films, stand up pouches, heat-sterilized packaging,  Polypropylene PPC 3660 is suitable particularly for the extrusion of corrugated cardboard, profiles and for extrusion-thermoforming applications where high impact resistance is required.
TOTAL Polypropylene PPC 5571	Polypropylene 5571 is a high impact copolymer with a Melt Flow of 7 g/10min  5571 is characterized by significantly improved impact resistance and good processability.  5571 has been developed specifically for cast film applications.

总体	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571
生产商/供应商	• SK Global Chemical	• LyondellBasell Industries	• LyondellBasell Industries	• TOTAL Refining & Chemicals	• TOTAL Refining & Chemicals
通用符号	• 抗撞击PP均聚物	• 抗撞击PP均聚物	• 抗撞击PP均聚物	• 抗撞击PP均聚物	• 抗撞击PP均聚物
材料状态	• 已商用：当前有效	• 已商用：当前有效	• 已商用：当前有效	• 已商用：当前有效	• 已商用：当前有效



总体	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571
资料 <sup>1</sup>	<ul style="list-style-type: none"> <li>Technical Datasheet (Chinese)</li> <li>Technical Datasheet (English)</li> <li>Technical Datasheet (Korean)</li> </ul>	<ul style="list-style-type: none"> <li>Processing - Extrusion (English)</li> <li>Processing - Injection Molding (English)</li> <li>Processing - Mold Shrink (English)</li> <li>Technical Datasheet (English)</li> </ul>	<ul style="list-style-type: none"> <li>Processing - Extrusion (English)</li> <li>Processing - Injection Molding (English)</li> <li>Processing - Mold Shrink (English)</li> <li>Technical Datasheet (English)</li> </ul>	<ul style="list-style-type: none"> <li>Technical Datasheet - Film (English)</li> <li>Technical Datasheet (English)</li> </ul>	<ul style="list-style-type: none"> <li>Technical Datasheet (English)</li> </ul>
UL 黄卡 <sup>2</sup>	<ul style="list-style-type: none"> <li>E135809-222657</li> </ul>	--	--	--	--
搜索 UL 黄卡	<ul style="list-style-type: none"> <li>SK Global Chemical</li> <li>YUPLENE®</li> </ul>	<ul style="list-style-type: none"> <li>LyondellBasell Industries</li> <li>Pro-fax</li> </ul>	<ul style="list-style-type: none"> <li>LyondellBasell Industries</li> </ul>	<ul style="list-style-type: none"> <li>TOTAL Refining &amp; Chemicals</li> </ul>	<ul style="list-style-type: none"> <li>TOTAL Refining &amp; Chemicals</li> </ul>
供货地区	<ul style="list-style-type: none"> <li>北美洲</li> <li>欧洲</li> <li>亚太地区</li> </ul>	<ul style="list-style-type: none"> <li>北美洲</li> </ul>	<ul style="list-style-type: none"> <li>欧洲</li> </ul>	<ul style="list-style-type: none"> <li>欧洲</li> </ul>	<ul style="list-style-type: none"> <li>北美洲</li> <li>亚太地区</li> </ul>
添加剂	--	<ul style="list-style-type: none"> <li>成核剂</li> <li>抗静电性</li> </ul>	--	--	--
特性	<ul style="list-style-type: none"> <li>尺寸稳定性良好</li> <li>抗冲共聚物</li> <li>抗撞击性, 高</li> <li>韧性良好</li> </ul>	<ul style="list-style-type: none"> <li>成核的</li> <li>刚性, 良好</li> <li>抗静电性</li> </ul>	<ul style="list-style-type: none"> <li>光学性能</li> <li>抗冲共聚物</li> <li>抗应力发白</li> <li>可加工性, 良好</li> <li>耐低温冲击</li> <li>韧性良好</li> </ul>	<ul style="list-style-type: none"> <li>抗冲共聚物</li> <li>抗撞击性, 高</li> <li>可加工性, 良好</li> <li>良好的熔体强度</li> <li>流动性低</li> <li>热消毒</li> </ul>	<ul style="list-style-type: none"> <li>抗冲共聚物</li> <li>可加工性, 良好</li> </ul>
用途	<ul style="list-style-type: none"> <li>电池盒</li> <li>电气/电子应用领域</li> <li>电器用具</li> <li>工业应用</li> <li>家具</li> <li>家用货品</li> <li>汽车领域的应用</li> <li>容器</li> </ul>	<ul style="list-style-type: none"> <li>薄膜</li> <li>护罩</li> <li>流延薄膜</li> <li>容器</li> <li>外壳</li> <li>消费品应用领域</li> <li>硬包装</li> </ul>	<ul style="list-style-type: none"> <li>薄膜</li> <li>层压板</li> <li>袋子</li> <li>流延薄膜</li> <li>热成型容器</li> <li>容器</li> <li>食品包装</li> <li>文具</li> </ul>	<ul style="list-style-type: none"> <li>包装</li> <li>薄膜</li> <li>层压板</li> <li>流延薄膜</li> <li>食品包装</li> <li>型材</li> </ul>	<ul style="list-style-type: none"> <li>流延薄膜</li> </ul>
机构评级	<ul style="list-style-type: none"> <li>FDA 21 CFR 177.1520</li> </ul>	--	--	<ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> </ul>	--
RoHS 合规性	--	--	--	<ul style="list-style-type: none"> <li>RoHS 合规</li> </ul>	--
形式	--	<ul style="list-style-type: none"> <li>粒子</li> </ul>	--	<ul style="list-style-type: none"> <li>粒子</li> </ul>	<ul style="list-style-type: none"> <li>粒子</li> </ul>
加工方法	<ul style="list-style-type: none"> <li>流延薄膜</li> <li>注射成型</li> </ul>	<ul style="list-style-type: none"> <li>流延薄膜</li> <li>压缩模塑</li> <li>注射成型</li> </ul>	<ul style="list-style-type: none"> <li>挤出</li> <li>流延薄膜</li> <li>热成型</li> <li>压延</li> <li>注射成型</li> </ul>	<ul style="list-style-type: none"> <li>薄膜挤出</li> <li>挤出</li> <li>流延薄膜</li> <li>热成型</li> <li>型材挤出成型</li> </ul>	<ul style="list-style-type: none"> <li>流延薄膜</li> </ul>



物理性能	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
比重							
--	--	0.900	--	--	--	g/cm <sup>3</sup>	ASTM D792B
--	--	--	0.900	0.905	--	g/cm <sup>3</sup>	ISO 1183
--	--	--	--	--	0.905	g/cm <sup>3</sup>	ASTM D1505
表观密度	--	--	--	0.53	--	g/cm <sup>3</sup>	ISO 1183
熔速率 (熔体流动速率)							
230°C/2.16 kg	3.5	6.0	--	--	7.0	g/10 min	ASTM D1238
230°C/2.16 kg	--	--	6.5	1.3	--	g/10 min	ISO 1133
Spiral Flow	55.0	--	--	--	--	cm	内部方法
机械性能	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
拉伸模量							
--	--	--	--	1300	--	MPa	ISO 527-2
--	--	--	1160	--	--	MPa	ISO 527-2/1
抗张强度							
屈服	26.5	--	--	--	23.4	MPa	ASTM D638
屈服 <sup>4</sup>	--	32.0	--	--	--	MPa	ASTM D638
屈服	--	--	--	24.0	--	MPa	ISO 527-2
屈服	--	--	26.0	--	--	MPa	ISO 527-2/50
伸长率							
屈服	--	8.0	--	--	7.0	%	ASTM D638
屈服	--	--	--	11	--	%	ISO 527-2
屈服	--	--	12	--	--	%	ISO 527-2/50
断裂	> 500	--	--	--	--	%	ASTM D638
断裂	--	--	550	--	--	%	ISO 527-2/50
弯曲模量							
--	1180	--	--	--	1170	MPa	ASTM D790
1% 正割 <sup>5</sup>	--	1520	--	--	--	MPa	ASTM D790A
--	--	--	--	1200	--	MPa	ISO 178



冲击性能	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
简支梁缺口冲击强度							
-20°C	--	--	--	8.0	--	kJ/m <sup>2</sup>	ISO 179
-20°C	--	--	2.0	--	--	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	--	--	--	> 50	--	kJ/m <sup>2</sup>	ISO 179
23°C	--	--	5.2	--	--	kJ/m <sup>2</sup>	ISO 179/1eA
悬壁梁缺口冲击强度							
-20°C	39	--	--	--	75	J/m	ASTM D256
23°C	160	--	--	--	190	J/m	ASTM D256
23°C	--	75	--	--	--	J/m	ASTM D256A
-20°C	--	--	--	7.0	--	kJ/m <sup>2</sup>	ISO 180
23°C	--	--	--	> 50	--	kJ/m <sup>2</sup>	ISO 180
硬度	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
洛氏硬度							
R 级	85	--	--	--	--		ASTM D785
R 计秤	--	--	--	77	--		ISO 2039-2
热性能	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
载荷下热变形温度							
0.45 MPa, 未退火	--	113	--	--	--	°C	ASTM D648
0.45 MPa, 未退火	--	--	79.0	90.0	--	°C	ISO 75-2/B
1.8 MPa, 未退火	--	--	--	50.0	--	°C	ISO 75-2/A
维卡软化温度							
--	150	--	--	--	148	°C	ASTM D1525
--	--	--	144	147	--	°C	ISO 306/A50
--	--	--	--	70.0	--	°C	ISO 306/B50
熔融温度							
--	--	--	--	--	160 到 165	°C	内部方法
--	--	--	--	165	--	°C	ISO 3146
Heat Deflection Temperature	110	--	--	--	90	°C	ASTM D648
老化	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
Accelerated Oven Aging - in Air (150°C)	15.0	--	--	--	--	day	ASTM D3012

补充信息	YUPLENE® B330F	Pro-fax SB912	Clyrell EC2340	TOTAL Polypropylene PPC 3660	TOTAL Polypropylene PPC 5571	单位制	测试方法
DuPont Impact Strength (-10°C)	> 2.94	--	--	--	--	J	ASTM D2794

**备注**

<sup>1</sup> 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

<sup>2</sup> UL 黄卡含有 UL 验证的易燃性和电气特性。UL Prospector 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。

<sup>3</sup> 一般属性：这些不能被视为规格。

<sup>4</sup> 50 mm/min

<sup>5</sup> 1.3 mm/min



## 购买地点

供应商	
YUPLENE® B330F	<b>SK Global Chemical</b> Seoul, South Korea 电话: +82-2-2121-5114 Web: <a href="http://eng.skglobalchemical.com/">http://eng.skglobalchemical.com/</a>
Pro-fax SB912	<b>LyondellBasell Industries</b> Wilmington, DE USA 电话: 713-309-7200 Web: <a href="http://polymers.lyondellbasell.com/portal/site/basell/">http://polymers.lyondellbasell.com/portal/site/basell/</a>
Clyrell EC2340	<b>LyondellBasell Industries</b> Wilmington, DE USA 电话: 713-309-7200 Web: <a href="http://polymers.lyondellbasell.com/portal/site/basell/">http://polymers.lyondellbasell.com/portal/site/basell/</a>
TOTAL Polypropylene PPC 3660	<b>TOTAL Refining &amp; Chemicals</b> Houston, TX USA 电话: 713-483-5000 Web: <a href="http://www.totalrefiningchemicals.com/">http://www.totalrefiningchemicals.com/</a>
TOTAL Polypropylene PPC 5571	<b>TOTAL Refining &amp; Chemicals</b> Houston, TX USA 电话: 713-483-5000 Web: <a href="http://www.totalrefiningchemicals.com/">http://www.totalrefiningchemicals.com/</a>



分销商

YUPLENE® B330F  
Pro-fax SB912

请联系供应商以便为 YUPLENE® B330F 查找分销商

**M. Holland Canada Company**

电话: 905-665-1168  
Web: <http://www.mholland.com/>  
供货地区: Canada

**M. Holland Company**

电话: 855-497-1403  
Web: <http://www.mholland.com/>  
供货地区: Mexico, United States

**Nexeo Solutions**

电话: 888-594-6009  
Web: <http://www.nexeosolutions.com/>  
供货地区: North America

**Plastic Service Centers**

电话: 586-307-3900  
Web: <http://www.plasticservice.com/>  
供货地区: North America

**PolyOne Distribution**

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.  
电话: 800-894-4266  
Web: <http://polyonedistribution.com/>  
供货地区: Global

Clyrell EC2340

**ALBIS Plastic**

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.  
电话: +49-40-78105-0  
Web: <http://www.albis.com/>  
供货地区: Algeria, Austria, Belgium, Bulgaria, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

**Ultrapolymers**

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.  
电话: +32-11-57-95-57  
Web: <http://www.ultrapolymers.com/>  
供货地区: Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom



## TOTAL Polypropylene PPC 3660

**Nexeo Solutions - Europe**

Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.

电话: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

供货地区: Belgium, Czech Republic, Denmark, Finland, Ireland, Luxembourg, Netherlands, Norway, Poland, Sweden, United Kingdom

**Plastribution**

电话: +44-845-345-4560

Web: <http://www.plastribution.co.uk/>

供货地区: United Kingdom

**RESINEX Group**

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

电话: +32-14-672511

Web: <http://www.resinex.com/>

供货地区: Europe

**Telko Oy**

Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.

电话: +358-9-5211

Web: <http://www.telko.com/>

供货地区: Denmark, Estonia, Finland, Latvia, Lithuania, Norway, Russian Federation, Sweden

## TOTAL Polypropylene PPC 5571

**Amco Polymers**

电话: 800-262-6685

Web: <http://www.amcopolymers.com/>

供货地区: North America

**CCC Plastics**

电话: 800-465-6917

Web: <http://www.cccplastics.com/>

供货地区: Canada

**M. Holland Canada Company**

电话: 905-665-1168

Web: <http://www.mholland.com/>

供货地区: Canada

**M. Holland Company**

电话: 855-497-1403

Web: <http://www.mholland.com/>

供货地区: Mexico, United States

