

## Technical Data

### 产品说明

TOTAL Polypropylene PPR 3221	Total Petrochemicals PPR 3221 is a random copolymer polypropylene with a Melt Flow Index of 1.8 g/min for the manufacturing of films with outstanding optical properties and easy heat weldability in the blown process.			
	Polypropylene PPR 3221 is intended for food or textile packaging, for lamination films, for protection films... as well as for label films.			
Globalene® ST611M	Globalene® ST611M 是一种聚丙烯无规共聚物 (PP 无规共聚物) 材料。该产品在北美洲或亚太地区有供货,加工方式为:injection stretch blow molding、吹塑成型或片材挤出成型。			
	Globalene® ST611M 的主要特性有:			
	<ul style="list-style-type: none"> <li>• 共聚物</li> <li>• 耐冲击</li> <li>• 透明度</li> </ul>			
	典型应用领域包括:			
	<ul style="list-style-type: none"> <li>• 薄板</li> <li>• 瓶子</li> </ul>			
YUNGSOX® PP 5018T	YUNGSOX® PP 5018T 是一种聚丙烯无规共聚物 (PP 无规共聚物) 材料。该产品在亚太地区有供货,。			
	YUNGSOX® PP 5018T 的主要特性有:			
	<ul style="list-style-type: none"> <li>• 共聚物</li> <li>• 美观</li> <li>• 透明度</li> </ul>			
	典型应用领域包括:			
	<ul style="list-style-type: none"> <li>• 瓶子</li> <li>• 食品接触应用</li> </ul>			
Purell RP271G	Low Melt Flow Polypropylene Random Copolymer Resin with High Clarity Dedicated for Medical Application in Particular IV Bottles Made by Extrusion Blow Molding Process (EBM)			
	Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant LyondellBasell Technical and Business contacts first.			
<b>总体</b>	<b>TOTAL Polypropylene PPR 3221</b>	<b>Globalene® ST611M</b>	<b>YUNGSOX® PP 5018T</b>	<b>Purell RP271G</b>
生产商/供应商	• TOTAL Refining & Chemicals	• Lee Chang Yung Chemical Industry Corp.	• Formosa Polypropylene	• LyondellBasell Industries
通用符号	• PP 无规共聚物	• PP 无规共聚物	• PP 无规共聚物	• PP 无规共聚物
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



总体	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G
资料 <sup>1</sup>	<ul style="list-style-type: none"> <li>Technical Datasheet (English)</li> </ul>	<ul style="list-style-type: none"> <li>Technical Datasheet (English)</li> </ul>	<ul style="list-style-type: none"> <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>
搜索 UL 黄卡	<ul style="list-style-type: none"> <li>TOTAL Refining &amp; Chemicals</li> </ul>	<ul style="list-style-type: none"> <li>Lee Chang Yung Chemical Industry Corp.</li> <li>Globalene®</li> </ul>	<ul style="list-style-type: none"> <li>Formosa Polypropylene</li> </ul>	<ul style="list-style-type: none"> <li>LyondellBasell Industries</li> </ul>
供货地区	<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>	<ul style="list-style-type: none"> <li>亚太地区</li> </ul>	<ul style="list-style-type: none"> <li>非洲和中东</li> <li>亚太地区</li> </ul>
特性	<ul style="list-style-type: none"> <li>光学性能</li> <li>可焊接</li> <li>无规共聚物</li> </ul>	<ul style="list-style-type: none"> <li>Good Printability</li> <li>耐低温冲击</li> <li>清晰度, 高</li> <li>无规共聚物</li> </ul>	<ul style="list-style-type: none"> <li>清晰度, 高</li> <li>无规共聚物</li> <li>优良外观</li> </ul>	<ul style="list-style-type: none"> <li>良好的加工性能</li> <li>良好抗撞击性</li> <li>耐化学性良好</li> <li>清晰度, 高</li> <li>无规共聚物</li> </ul>
用途	<ul style="list-style-type: none"> <li>包装</li> <li>薄膜</li> <li>标签</li> <li>层压板</li> <li>食品包装</li> </ul>	<ul style="list-style-type: none"> <li>片材</li> <li>瓶子</li> </ul>	<ul style="list-style-type: none"> <li>吹塑成型应用</li> <li>果汁瓶</li> <li>型材</li> </ul>	<ul style="list-style-type: none"> <li>薄膜</li> <li>瓶子</li> <li>消费品应用领域</li> <li>药物</li> <li>医疗/护理用品</li> </ul>
机构评级	<ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> </ul>	--	<ul style="list-style-type: none"> <li>FDA 21 CFR 177.1520</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>	<ul style="list-style-type: none"> <li>粒子</li> </ul>
加工方法	<ul style="list-style-type: none"> <li>薄膜挤出</li> <li>吹塑薄膜</li> </ul>	<ul style="list-style-type: none"> <li>Injection Stretch Blow Molding</li> <li>吹塑成型</li> <li>片材挤出成型</li> </ul>	--	<ul style="list-style-type: none"> <li>挤出</li> <li>挤出吹塑成型</li> <li>注射成型</li> </ul>



物理性能	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
密度 / 比重						
--	--	0.900	--	0.900	g/cm³	ASTM D792
--	0.902	--	0.900	--	g/cm³	ISO 1183
表观密度	0.53	--	--	--	g/cm³	ISO 1183
熔速率 ( 熔体流动速率 )						
230°C/2.16 kg	--	1.8	--	1.7	g/10 min	ASTM D1238
230°C/2.16 kg	1.8	--	1.7	--	g/10 min	ISO 1133
收缩率						
流动	--	1.7	--	--	%	ASTM D955
--	--	--	1.3 到 1.7	--	%	内部方法
机械性能	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
抗张强度						
屈服	--	29.4	--	26.0	MPa	ASTM D638
屈服	--	--	29.4	--	MPa	ISO 527-2
伸长率						
屈服	--	13	--	14	%	ASTM D638
屈服	< 15	--	--	--	%	ISO 527-2
断裂	--	620	--	--	%	ASTM D638
断裂	--	--	400	--	%	ISO 527-2
弯曲模量						
--	--	1050	--	--	MPa	ASTM D790
--	--	--	--	900	MPa	ASTM D790A
--	900	--	883	--	MPa	ISO 178



薄膜	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
薄膜厚度 - 经测试	40	--	--	--	µm	
拉伸应力 - MD						ISO 527-3
屈服, 40 µm, 吹塑薄膜	35.0	--	--	--	MPa	
断裂, 40 µm, 吹塑薄膜	70.0	--	--	--	MPa	
伸长率 - MD (断裂, 40 µm, 吹塑薄膜)	500	--	--	--	%	ISO 527-3
落锤冲击 (40 µm, 吹塑薄膜)	35	--	--	--	g	ISO 7765-1
埃尔曼多夫抗撕强度						ISO 6383-2
MD : 40 µm, 吹塑薄膜	3.0	--	--	--	N	
TD : 40 µm, 吹塑薄膜	20	--	--	--	N	
冲击性能	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
悬壁梁缺口冲击强度						
23°C	--	59	--	--	J/m	ASTM D256
23°C	--	--	150	--	J/m	ISO 180
23°C	--	--	--	80	J/m	ASTM D256A
0°C	3.6	--	--	--	kJ/m²	ISO 180
23°C	22	--	--	--	kJ/m²	ISO 180
硬度	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
洛氏硬度						
R 级	--	81	--	--		ASTM D785
R 计秤	82	--	98	--		ISO 2039-2
热性能	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
载荷下热变形温度						
0.45 MPa, 未退火	--	--	--	88.0	°C	ASTM D648
1.8 MPa, 未退火	--	--	95.0	--	°C	ISO 75-2/A
维卡软化温度						
--	--	--	130	--	°C	ISO 306
--	130	--	--	--	°C	ISO 306/A50
--	67.0	--	--	--	°C	ISO 306/B50
熔融温度	--	--	146	--	°C	DSC



光学性能	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
光泽度 (40.0 μm, 吹塑薄膜)	79	--	--	--		ASTM D2457
雾度 (40.0 μm, 吹塑薄膜)	2.1	--	--	--	%	ISO 14782
补充信息	TOTAL Polypropylene PPR 3221	Globalene® ST611M	YUNGSOX® PP 5018T	Purell RP271G	单位制	测试方法
Heat Deflection Temperature	--	80	--	--	°C	ASTM D648

**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> 一般属性：这些不能被视为规格。



## 购买地点

供应商	
TOTAL Polypropylene PPR 3221	<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>
Globalene® ST611M	<b>Lee Chang Yung Chemical Industry Corp.</b> Taipei, Taiwan 电话: +886-2-2528-8895 Web: <a href="http://www.lcygroup.com">http://www.lcygroup.com</a>
YUNGSOX® PP 5018T	<b>Formosa Polypropylene</b> Taipei, Taiwan 电话: +886-2-2712-2211 Web: <a href="http://www.fpc.com.tw/">http://www.fpc.com.tw/</a>
Purell RP271G	<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>



## 分销商

TOTAL Polypropylene PPR 3221

**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

**TER HELL PLASTIC GMBH**

*TER HELL PLASTIC is a Pan European distribution company. Contact TER HELL PLASTIC for availability of individual products by country.*

电话: +49-232-3941-0  
 Web: <http://www.terhell.de/>  
 供货地区: France, Germany, Poland, Spain

Globalene® ST611M

请联系供应商以便为 Globalene® ST611M 查找分销商

YUNGSOX® PP 5018T

请联系供应商以便为 YUNGSOX® PP 5018T 查找分销商

Purell RP271G

**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

