

Technical Data

产品说明

Purell RP271G	<p>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)</p> <p>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.</p>
Topilene® R530A	<p>Topilene® R530A is a specially designed polypropylene random copolymer that features excellent processability and good clarity. It is suitable for pharmaceutical, cosmetic and food contact products. Topilene® R530A complies with FDA requirements in the code of Federal Regulations in 21 CFR 177.1520 for food contact. This product passed the US Pharmacopoeia test (USP class VI) as well as the European Pharmacopoeia test (EP 3.1.6) and can be used as a medical purpose. This product also obtained the Chinese Food and Drug Administration approval and it is registered in the FDA Drug Master File list. (DMF No. 21499)</p> <p>Characteristics:</p> <p>Typical Application: Intravenous bottle (EBM) / Cosmetic container / Food container</p> <p>Features: Excellent processability / High transparency</p>
MedSelect™ 23R2A	<p>Random Copolymer for Extrusion and Injection Molding</p> <p>Features: Produced without animal derived components</p> <p>Sterilization: Gamma radiation, EtO, E-beam, and autoclave</p> <p>Applications: Medical bottles, syringes, centrifuge tubes</p>
YUNGSOX® PP 5018	<p>Characteristics</p> <ul style="list-style-type: none"> • Good resistance to chemical <p>Applications</p> <ul style="list-style-type: none"> • Blow molding • Pharmaceutical bottle
YUPLENE™ R520F	<p>YUPLENE R520F is propylene random copolymer designed for use in blow molding, and ISBM (Injection stretch blow molding). YUPLENE R520F offers high Vicat softening point and low temperature toughness, YUPLENE R520F is suitable for application which needs high temperature heat treatment step.</p> <p>YUPLENE R520F is designed for the medical applications. YUPLENE R520F complies with FDA regulation 21 CFR177.1520 for all food contact and it meets the United States Pharmacopoeia (USP) test requirement.</p>

总览	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F
生产商/供应商	• LyondellBasell Industries	• Hyosung Chemical Corporation	• INVISTA Polypropylene	• Formosa Plastics Corporation	• SK Geo Centric
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	• PP 无规共聚物



总览	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F
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
资料 ¹	<ul style="list-style-type: none"> Processing - Extrusion (English) Processing - Injection Molding (English) Processing - Mold Shrink (English) Technical Datasheet (English) 	<ul style="list-style-type: none"> Technical Datasheet (English) 	<ul style="list-style-type: none"> Technical Datasheet (English) 	<ul style="list-style-type: none"> Technical Datasheet (English) 	<ul style="list-style-type: none"> Technical Datasheet (English)
搜索 UL 黄卡	<ul style="list-style-type: none"> LyondellBasell Industries 	<ul style="list-style-type: none"> Hyosung Chemical Corporation Topilene® 	--	<ul style="list-style-type: none"> Formosa Plastics Corporation 	<ul style="list-style-type: none"> SK Geo Centric YUPLENE™
供货地区	<ul style="list-style-type: none"> 非洲和中东 亚太地区 	<ul style="list-style-type: none"> 北美洲 欧洲 亚太地区 	<ul style="list-style-type: none"> 北美洲 欧洲 亚太地区 	<ul style="list-style-type: none"> 北美洲 欧洲 亚太地区 	<ul style="list-style-type: none"> 北美洲 欧洲 亚太地区
特性	<ul style="list-style-type: none"> 良好的加工性能 良好抗撞击性 耐化学品性能，良好 清晰度，高 无规共聚物 	<ul style="list-style-type: none"> Good Clarity 无规共聚物 优异的加工性能 	<ul style="list-style-type: none"> 电子束消毒 辐射消毒 高压锅消毒 环氧乙烷消毒 无动物源性成分 无规共聚物 	<ul style="list-style-type: none"> 耐化学品性能，良好 食品接触的合规性 无规共聚物 	<ul style="list-style-type: none"> 低温韧性 食品接触的合规性 无规共聚物
用途	<ul style="list-style-type: none"> 薄膜 瓶子 消费品应用领域 药物 医疗/护理用品 	<ul style="list-style-type: none"> 化妆品 食品容器 医疗/护理用品 	<ul style="list-style-type: none"> 瓶子 医疗/护理用品 	<ul style="list-style-type: none"> 吹塑成型应用 瓶子 药物 	<ul style="list-style-type: none"> 吹塑成型应用 瓶子 容器 医疗/护理用品
机构评级	--	<ul style="list-style-type: none"> DMF 21499 EP Monograph 3.1.6 FDA 21 CFR 177.1520 USP 第 VI 类 	<ul style="list-style-type: none"> DMF FDA 21 CFR 177.1520(c) 3.2a ISO 10993 Part 5 USP 85 USP 88 USP 第 VI 类 	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 USP 第 VI 类 	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 USP
RoHS 合规性	--	--	• 联系制造商	--	--
外观	--	• 清晰/透明	--	--	--
形式	• 粒子	--	• 粒子	• 粒子	--
加工方法	<ul style="list-style-type: none"> 挤出 挤出吹塑成型 注射成型 	--	<ul style="list-style-type: none"> 挤出 注吹成型 	• 吹塑成型	<ul style="list-style-type: none"> 吹塑成型 拉伸吹塑成型



物理性能	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	测试方法
密度 / 比重							
--	0.900	0.900	--	--	--	g/cm³	ASTM D792
--	--	--	--	0.900	--	g/cm³	ISO 1183
--	--	--	0.900	--	--	g/cm³	ASTM D1505
熔速率 (熔体流动速率)							
230°C/2.16 kg	1.7	2.0	2.0	--	1.8	g/10 min	ASTM D1238
230°C/2.16 kg	--	--	--	1.7	--	g/10 min	ISO 1133
Spiral Flow	--	--	--	--	50.0	cm	内部方法
收缩率	--	--	--	1.3 到 1.7	--	%	内部方法
机械性能	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	测试方法
抗张强度							
屈服	26.0	27.5	26.2	--	28.4	MPa	ASTM D638
屈服	--	--	--	24.5	--	MPa	ISO 527-2
伸长率							
屈服	14	--	11	--	--	%	ASTM D638
断裂	--	--	--	--	> 500	%	ASTM D638
断裂	--	--	--	500	--	%	ISO 527-2
弯曲模量							
--	--	932	--	--	1030	MPa	ASTM D790
--	900	--	--	--	--	MPa	ASTM D790A
正割	--	--	900	--	--	MPa	ASTM D790
正切	--	--	950	--	--	MPa	ASTM D790
--	--	--	--	932	--	MPa	ISO 178
冲击性能	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	测试方法
悬壁梁缺口冲击强度							
23°C	--	78	75	--	98	J/m	ASTM D256
23°C	80	--	--	--	--	J/m	ASTM D256A
23°C	--	--	--	7.8	--	kJ/m²	ISO 180
落锤冲击 (23°C)	--	--	> 36.2	--	--	J	ASTM D5420



硬度	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	测试方法
洛氏硬度							
R 级	--	80	76	--	80		ASTM D785
R 计秤	--	--	--	90	--		ISO 2039-2
热性能	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	测试方法
载荷下热变形温度 (0.45 MPa, 未退火)	88.0	--	77.8	--	--	°C	ASTM D648
维卡软化温度							
--	--	--	--	--	135	°C	ASTM D1525
--	--	--	--	120	--	°C	ISO 306
熔融温度							
--	--	--	--	146	--	°C	DSC
--	--	--	150 到 156	--	--	°C	ASTM D3418
补充信息	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	测试方法
Accelerated Oven Aging - in Air (150°C)	--	--	--	--	15.0	day	ASTM D3012
Heat Deflection Temperature							
--	--	--	--	90	--	°C	ISO 75-2/B
--	--	--	--	--	82	°C	ASTM D648
注射	Purell RP271G	Topilene® R530A	MedSelect™ 23R2A	YUNGSOX® PP 5018	YUPLENE™ R520F	单位制	
干燥温度	--	80 到 100	--	--	--	°C	
干燥时间	--	2.0 到 4.0	--	--	--	hr	

备注

¹ 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。

² 一般属性：这些不能被视为规格。



购买地点

供应商	
Purell RP271G	LyondellBasell Industries Wilmington, Wilmington USA 电话: 713-309-7200 Web: https://www.lyondellbasell.com/
Topilene® R530A	Hyosung Chemical Corporation Seoul, Seoul South Korea 电话: +82-2-2146-5500 Web: http://www.hyosungchemical.com/
MedSelect™ 23R2A	INVISTA Polypropylene Longview, Longview USA 电话: 903-239-5332 Web: https://www.invista.com/Polypropylene-TDS
YUNGSOX® PP 5018	Formosa Plastics Corporation Taipei, Taipei Taiwan 电话: +886-2-2712-2211 Web: http://www.fpc.com.tw/
YUPLENE™ R520F	SK Geo Centric Seoul, Seoul South Korea 电话: +82-2-2121-5114 Web: https://skchem.com/



分销商

Purell RP271G	<p>ALBIS Plastic <i>ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.</i> 电话: +49-40-78105-0 Web: http://www.albis.com/ 供货地区: Algeria, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom</p>
Topilene® R530A	<p>Advanced Plastics, Inc 电话: 847-550-5556 Web: http://www.apikolon.com/ 供货地区: Mexico, North America, South America</p>
MedSelect™ 23R2A	<p>M. Holland Canada Company 电话: 905-665-1168 Web: http://www.mholland.com/ 供货地区: Canada</p> <p>M. Holland Company 电话: 855-497-1403 Web: http://www.mholland.com/ 供货地区: Mexico, United States</p> <p>Nexeo Plastics <i>Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.</i> 电话: 833-446-3936 Web: https://www.nexeoplastics.com/ 供货地区: North America</p>
YUNGSOX® PP 5018	<p>Click Plastics AG <i>Click Plastics AG is a Pan European distribution company. Contact Click Plastics for availability of individual products by country.</i> 电话: +49-6251-770-690-0 Web: http://www.clickplastics.com 供货地区: Germany</p> <p>QTM 电话: 714-575-5000 Web: https://www.qtmi.com/ 供货地区: North America</p>
YUPLENE™ R520F	请联系供应商以便为 YUPLENE™ R520F 查找分销商

