

## Technical Data

### 产品说明

MAGNUM™ 3453	<p>'MAGNUM™ 3453 ABS is a general purpose injection moulding resin suitable for a wide range of applications. The product combines a medium to high impact performance with good flowability. The mass (continuous process) ABS technology ensures an ABS resin that combines excellent processability with a stable light base colour that is ideal for self-colouring.</p> <p>Applications:</p> <ul style="list-style-type: none"> <li>• Household appliances</li> <li>• Telephones</li> <li>• Electrical and computer equipment</li> <li>• Consumer goods</li> <li>• Toys</li> </ul>
POLYLAC® PA-757 J01	High gloss, Medium impact, black
POLYLAC® PA-757N	High gloss, Medium impact
POLIMAXX GA850	GA850 is a general purpose grade of ABS resin for injection molding process with high impact resistance. It is suitable for house wares, electrical appliance (microwave part, electrical fan), toys, telephone and etc. It also meets the requirement of food contact regulation and USP class VI.

总览	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850
生产商/供应商	• Trinseo	• CHI MEI CORPORATION	• CHI MEI CORPORATION	• IRPC Public Company Limited
通用符号	• ABS	• ABS	• ABS	• ABS
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
资料 <sup>1</sup>	<ul style="list-style-type: none"> <li>• Brochure - MAGNUM™ ABS - The Benchmark ABS for Extrusion (English)</li> <li>• Brochure - MAGNUM™ ABS Resins - Proven to enhance productivity and efficiency (English)</li> <li>• Brochure - Tough Materials for Household- &amp; Commercial-Use Consumer Electronic Equipment Housings (English)</li> <li>• Technical Datasheet</li> </ul>	• Technical Datasheet (English)	• Technical Datasheet (English)	• Technical Datasheet (English)
UL 黄卡 <sup>2</sup>	<ul style="list-style-type: none"> <li>• E162447-238263</li> <li>• E73656-249571</li> </ul>	--	• E56070-104304732	• E132283-222066
搜索 UL 黄卡	<ul style="list-style-type: none"> <li>• Trinseo</li> <li>• MAGNUM™</li> </ul>	<ul style="list-style-type: none"> <li>• CHI MEI CORPORATION</li> <li>• POLYLAC®</li> </ul>	<ul style="list-style-type: none"> <li>• CHI MEI CORPORATION</li> <li>• POLYLAC®</li> </ul>	<ul style="list-style-type: none"> <li>• IRPC Public Company Limited</li> <li>• POLIMAXX</li> </ul>



总览	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850
供货地区	<ul style="list-style-type: none"> <li>北美洲</li> <li>欧洲</li> </ul>	<ul style="list-style-type: none"> <li>北美洲</li> <li>非洲和中东</li> <li>拉丁美洲</li> <li>欧洲</li> <li>亚太地区</li> </ul>	<ul style="list-style-type: none"> <li>北美洲</li> <li>非洲和中东</li> <li>拉丁美洲</li> <li>欧洲</li> <li>亚太地区</li> </ul>	<ul style="list-style-type: none"> <li>北美洲</li> <li>欧洲</li> <li>亚太地区</li> </ul>
特性	<ul style="list-style-type: none"> <li>高抗撞击性</li> <li>良好的加工性能</li> <li>良好的流动性</li> </ul>	<ul style="list-style-type: none"> <li>高光</li> <li>中等抗冲击强度</li> </ul>	<ul style="list-style-type: none"> <li>高光</li> <li>中等抗冲击强度</li> </ul>	<ul style="list-style-type: none"> <li>高抗撞击性</li> <li>食品接触的合规性</li> <li>通用</li> </ul>
用途	<ul style="list-style-type: none"> <li>电气/电子应用领域</li> <li>电器用具</li> <li>通用</li> <li>玩具</li> </ul>	--	--	<ul style="list-style-type: none"> <li>电气/电子应用领域</li> <li>家电部件</li> <li>家用货品</li> <li>通用</li> <li>玩具</li> </ul>
机构评级	--	--	--	<ul style="list-style-type: none"> <li>FDA 21 CFR 181.32</li> <li>USP 第 VI 类</li> </ul>
RoHS 合规性	--	<ul style="list-style-type: none"> <li>RoHS 合规</li> </ul>	<ul style="list-style-type: none"> <li>RoHS 合规</li> </ul>	<ul style="list-style-type: none"> <li>RoHS 合规</li> </ul>
外观	--	<ul style="list-style-type: none"> <li>黑色</li> </ul>	--	--
形式	<ul style="list-style-type: none"> <li>粒子</li> </ul>	--	--	--
加工方法	<ul style="list-style-type: none"> <li>片材挤出成型</li> <li>型材挤出成型</li> <li>注射成型</li> </ul>	--	--	<ul style="list-style-type: none"> <li>注射成型</li> </ul>
树脂 ID (ISO 1043)	--	<ul style="list-style-type: none"> <li>&gt;ABS&lt;</li> </ul>	<ul style="list-style-type: none"> <li>&gt;ABS&lt;</li> </ul>	--

物理性能	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
密度	--	1.05	--	--	g/cm³	ISO 1183
23°C	--	--	1.05	1.05	g/cm³	
表观密度	0.65	--	--	--	g/cm³	ISO 60
熔流率 (熔体流动速率)						
220°C/10.0 kg	--	--	--	20	g/10 min	ASTM D1238
220°C/10.0 kg	15	17	18	--	g/10 min	ISO 1133
收缩率	0.40 到 0.70	0.40 到 0.70	0.40 到 0.70	--	%	ISO 294-4
机械性能	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
拉伸模量	2280	--	--	--	MPa	ISO 527-2



机械性能	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
抗张强度						
屈服, 23°C	--	--	--	52.0	MPa	ASTM D638
屈服	45.0	47.0	46.0	--	MPa	ISO 527-2/50
断裂	--	35.0	34.0	--	MPa	ISO 527-2/50
拉伸应变						ISO 527-2/50
屈服	2.5	--	--	--	%	
断裂	--	30	20	--	%	
弯曲模量						
23°C	--	--	--	2350	MPa	ASTM D790
-- 4, 5	2300	--	--	--	MPa	ISO 178
-- 4	--	2400	2100	--	MPa	ISO 178
弯曲应力						
-- 4, 5	68.0	--	--	--	MPa	ISO 178
-- 4	--	70.0	75.0	--	MPa	ISO 178
屈服, 23°C	--	--	--	70.6	MPa	ASTM D790
冲击性能	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
简支梁缺口冲击强度						
23°C	--	18	20	--	kJ/m²	ISO 179
23°C, 注塑	18	--	--	--	kJ/m²	ISO 179/1eA
悬壁梁缺口冲击强度						
23°C, 6.35 mm	--	--	--	260	J/m	ASTM D256
23°C	--	19	18	--	kJ/m²	ISO 180/1A
硬度	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
洛氏硬度 (R 级, 23°C, 6.35 mm)	--	--	--	118		ASTM D785



热性能	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
载荷下热变形温度						
0.45 MPa, 未退火, 6.35 mm	--	--	--	96.0	°C	ASTM D648
1.8 MPa, 未退火, 6.35 mm	--	--	--	87.0	°C	ASTM D648
1.8 MPa, 未退火	--	--	83.0	--	°C	ISO 75-2/A
1.8 MPa, 退火	100	98.0	98.0	--	°C	ISO 75-2/A
维卡软化温度						
--	97.0	102	100	--	°C	ISO 306/B50
--	--	106	104	--	°C	ISO 306/A50
线形热膨胀系数 - 流动	--	7.9E-5	8.6E-5	--	cm/cm/°C	ISO 11359-2
可燃性	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	测试方法
UL 阻燃等级						UL 94
1.0 mm <sup>6</sup>	HB	--	--	--		
1.5 mm	--	HB	HB	HB		
3.0 mm <sup>6</sup>	HB	--	--	--		
碳排放 <sup>6</sup>	25.0	--	--	--	µg/g	VDA 277
雾化 <sup>6</sup>	97	--	--	--	%	ISO 294-4
注射	MAGNUM™ 3453	POLYLAC® PA-757 J01	POLYLAC® PA-757N	POLIMAXX GA850	单位制	
干燥温度	80 到 90	--	--	80 到 85	°C	
干燥时间	2.0 到 4.0	--	--	2.0	hr	
加工 (熔体) 温度	--	--	--	190 到 240	°C	

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> 2.0 mm/min

<sup>5</sup> 3 点

<sup>6</sup> 这个额定值并非为了反映这种或任何其他材料在实际起火条件下造成的危险。



## 购买地点

供应商	
MAGNUM™ 3453	<b>Trinseo</b> , USA 电话: 888-789-7661 Web: <a href="http://www.trinseo.com/">http://www.trinseo.com/</a>
POLYLAC® PA-757 J01	<b>CHI MEI CORPORATION</b> Tainan County, Taiwan 电话: +886-6-266-3000 Web: <a href="http://www.chimeicorp.com/">http://www.chimeicorp.com/</a>
POLYLAC® PA-757N	<b>CHI MEI CORPORATION</b> Tainan County, Taiwan 电话: +886-6-266-3000 Web: <a href="http://www.chimeicorp.com/">http://www.chimeicorp.com/</a>
POLIMAXX GA850	<b>IRPC Public Company Limited</b> , Thailand 电话: +66-2-678-5000 Web: <a href="http://www.irpcmarket.com/">http://www.irpcmarket.com/</a>



## 分销商

MAGNUM™ 3453

**Avient Distribution (formerly PolyOne Distribution)***Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.*

电话: +1-888-502-0951 (USA); +86-21-6028-4805 (China)

Web: <https://www.avientdistribution.com/>

供货地区: Global

**Channel Prime Alliance**

电话: 800-247-8038

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

供货地区: North America

**Entec Polymers**

电话: 800-375-5440

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

供货地区: North America

**Nexeo Plastics - Europe***Nexeo Plastics is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

电话: +34-93-480-9125

Web: <https://www.nexeoplastics.com/>

供货地区: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Spain, Sweden, Switzerland, United Kingdom

**Osterman & Company**

电话: 800-914-4437

Web: <http://www.osterman-co.com/>

供货地区: North America

**PolySource**

电话: 866-558-5300

Web: <http://www.polysource.net/>

供货地区: North America

**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

**Tex-Co Resin Distribution, Inc.**

电话: 877-908-3926

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

供货地区: North America

POLYLAC® PA-757 J01

**A. Westensee und Partner Rohstoff GmbH**

电话: +49-4171-8812-0

Web: <http://www.awp-rohstoffe.de/>

供货地区: Germany

**AMP FRANCE**

电话: +33-3-8920-1390

Web: <http://www.amp.fr/>

供货地区: France

**AMP TUNISIA**

电话: +216-52-27-21-73

Web: <http://www.amp.fr/>

供货地区: Tunisia

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

电话: +49-40-32008-0

Web: <http://www.biesterfeld-plastic.com/>

供货地区: Algeria, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey

**Calsak Polymers**

电话: 800-743-2595

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

供货地区: North America

**Distrupol Ltd***Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*

电话: 08452003040

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

供货地区: Ireland, United Kingdom

**Entec Polymers**

电话: 800-375-5440

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

供货地区: North America

**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

**The Materials Group**

电话: 616-863-6046

Web: <http://thematerialsgroup.com/>

供货地区: North America



POLYLAC® PA-757N

**A. Westensee und Partner Rohstoff GmbH**

电话: +49-4171-8812-0  
Web: <http://www.awp-rohstoffe.de/>  
供货地区: Germany

**AMP FRANCE**

电话: +33-3-8920-1390  
Web: <http://www.amp.fr/>  
供货地区: France

**AMP TUNISIA**

电话: +216-52-27-21-73  
Web: <http://www.amp.fr/>  
供货地区: Tunisia

**Calsak Polymers**

电话: 800-743-2595  
Web: <http://www.calsak.com/>  
供货地区: North America

**Distrupol Ltd**

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电话: 08452003040  
Web: <http://www.distrupol.com/>  
供货地区: Ireland, United Kingdom

**Entec Polymers**

电话: 800-375-5440  
Web: <http://www.entecpolymers.com/>  
供货地区: North America

**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

**The Materials Group**

电话: 616-863-6046  
Web: <http://thematerialsgroup.com/>  
供货地区: North America

POLIMAXX GA850

**Advanced Plastics, Inc**

电话: 847-550-5556  
Web: <http://www.apikolon.com/>  
供货地区: Mexico, North America, South America



**Click Plastics AG**

*Click Plastics AG is a Pan European distribution company. Contact Click Plastics for availability of individual products by country.*

电话: +49-6251-770-690-0

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

供货地区: Germany

**PolySource**

电话: 866-558-5300

Web: <http://www.polysource.net/>

供货地区: North America

