



产品说明

TOTAL Polypropylene
PPC 10642

Polypropylene PPC 10642 is a nucleated antistatic heterophasic copolymer with high Melt Flow Index of 44 g/10 min.

Polypropylene PPC 10642 is characterized by high fluidity with good mechanical properties. It has been formulated for excellent antistatic properties.

Polypropylene PPC 10642 has been developed for high speed injection moulding of pails and food packaging.

We hereby confirm that we do not use peroxide in the manufacturing of the above-mentioned Product.

Description

BI850, Hanwha Total HIPP, is high flow impact copolymer for injection molding application. It exhibits a high rigidity as well as an excellent impact strength due to the ideal combination of highly crystalline homo matrix and the well-designed rubber morphology. This is suitable for the injection molding of large articles which require high melt flowability.

Hanwha Total PP
BI850

Characteristics

- High stiffness & flowability
- Excellent balance between stiffness & impact strength

Applications

- Large E&E articles, base resin for PP compound (auto & E&E) Thin wall injection molding (TWIM) containers, housewares

Description

BI800 is high flow impact PP resins for injection molding application. This exhibit a high rigidity as well as an excellent impact strength due to the ideal combination of highly crystalline homo matrix and the well-designed rubber morphology. This is suitable for the injection molding of large articles which require high melt flowability.

Hanwha Total PP
BI800

Characteristics

- High stiffness & flowability
- Excellent balance between stiffness & impact strength

Applications

- Large E&E articles, base resin for PP compound (auto & E&E), thin wall injection molding (TWIM) containers, housewares



AZ564G is a block copolymer polypropylene intended for industrial application & thin wall applications. It has a high melt flow and formulated with nucleating agent. Injection molding parts made from this resin exhibit good impact, high stiffness and good heat stability.

Petro Rabigh PP
AZ564G

Applications

- Crates
- Thin wall application
- Industrial application
- Electrical appliances

YUPLENE®
B391G

YUPLENE B391G is a propylene impact copolymer designed for injection molding applications. YUPLENE B391G has high stiffness, excellent dimensional stability, good impact strength and very high flowability. This is not a chemical cracked grade so it is free from surface gas mark. YUPLENE B391G is especially suitable for various electrical appliances, large products and thin wall products. YUPLENE B391G complies with FDA regulation 21 CFR177.1520.

| 总体 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G |
|--------------------|--|--|--|--|--|
| 生产商/供应商 | • TOTAL Refining & Chemicals | • Hanwha Total Petrochemical Co., Ltd. | • Hanwha Total Petrochemical Co., Ltd. | • Rabigh Refining & Petrochemical Co. | • SK Global Chemical |
| 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 |
| 资料 ¹ | • Technical Datasheet (English) | • Technical Datasheet (English) | • Technical Datasheet (English) | • Technical Datasheet (English) | • Technical Datasheet (English) |
| UL 黄卡 ² | -- | • E140331-100039330 • E140331-100607312 | -- | -- | • E135809-222661 |
| 搜索 UL 黄卡 | • TOTAL Refining & Chemicals | • Hanwha Total Petrochemical Co., Ltd. | • Hanwha Total Petrochemical Co., Ltd. | -- | • SK Global Chemical • YUPLENE® |
| 供货地区 | • 欧洲 | • 北美洲 • 亚太地区 | • 北美洲 • 亚太地区 | • 非洲和中东 | • 北美洲 • 欧洲 • 亚太地区 |
| 添加剂 | • 成核剂 • 抗静电性 | -- | -- | • 成核剂 | -- |
| 特性 | • 成核的 • 抗冲共聚物 • 抗静电性 • 流动性高 | • 刚性，高 • 刚性，高 • 高结晶 • 抗冲共聚物 • 抗撞击性，高 • 流动性高 • 食品接触的合规性 | • 刚性，高 • 刚性，高 • 高结晶 • 抗冲共聚物 • 抗撞击性，高 • 流动性高 • 食品接触的合规性 | • Block Copolymer • 成核的 • 刚性，良好 • 抗撞击性，良好 • 流动性高 • 热稳定性 | • 尺寸稳定性良好 • 刚性，高 • 抗冲共聚物 • 抗撞击性，良好 • 流动性高 |
| 用途 | • 食品包装 • 桶 | • 薄壁容器 • 电气/电子应用领域 • 混料 • 家用货品 • 汽车领域的应用 | • 薄壁容器 • 电气/电子应用领域 • 混料 • 家用货品 • 汽车领域的应用 | • 薄壁部件 • 电器用具 • 工业应用 • 装货箱 | • 薄壁部件 • 电气/电子应用领域 • 工业应用 • 家电部件 • 汽车领域的应用 • 容器 |



| 总体 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G |
|----------|----------------------------------|--------------------------|--------------------------|---------------------------|-----------------------|
| 机构评级 | • EC 1907/2006 (REACH) | • FDA 21 CFR 177.1520 | • FDA 21 CFR 177.1520 | -- | • FDA 21 CFR 177.1520 |
| RoHS 合规性 | • RoHS 合规 | -- | -- | -- | -- |
| 形式 | • 粒子 | -- | -- | -- | -- |
| 加工方法 | • 注射成型 | • 注射成型 | • 注射成型 | • 注射成型 | • 注射成型 |

| 物理性能 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
|---------------|----------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------|----------|------------|
| 密度 / 比重 | -- | -- | -- | 0.900 | -- | g/cm³ | ASTM D792A |
| -- | 0.905 | -- | -- | -- | -- | g/cm³ | ISO 1183 |
| -- | -- | 0.910 | 0.910 | -- | -- | g/cm³ | ASTM D1505 |
| 表观密度 | 0.53 | -- | -- | -- | -- | g/cm³ | ISO 1183 |
| 熔流率 (熔体流动速率) | | | | | | | |
| 230°C/2.16 kg | -- | 43 | 43 | 39 | 40 | g/10 min | ASTM D1238 |
| 230°C/2.16 kg | 44 | -- | -- | -- | -- | g/10 min | ISO 1133 |
| Spiral Flow | -- | -- | -- | -- | > 80.0 | cm | 内部方法 |
| 收缩率 | | | | | | | 内部方法 |
| 流动 | -- | -- | -- | 1.4 | -- | % | |
| 横向流动 | -- | -- | -- | 1.6 | -- | % | |

| 机械性能 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
|------|----------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------|-----|-----------|
| 拉伸模量 | 1600 | -- | -- | -- | -- | MPa | ISO 527-2 |
| 抗张强度 | | | | | | | |
| 屈服 | -- | 28.4 | 27.5 | 24.0 | 25.5 | MPa | ASTM D638 |
| 屈服 | 27.0 | -- | -- | -- | -- | MPa | ISO 527-2 |
| 断裂 | -- | -- | -- | 16.0 | -- | MPa | ASTM D638 |
| 拉伸应变 | | | | | | | |
| 屈服 | 4.0 | -- | -- | -- | -- | % | ISO 527-2 |
| 断裂 | -- | 50 | > 100 | -- | < 500 | % | ASTM D638 |
| 弯曲模量 | | | | | | | |
| -- | -- | 1570 | 1420 | 1280 | 1270 | MPa | ASTM D790 |
| -- | 1500 | -- | -- | -- | -- | MPa | ISO 178 |



| 冲击性能 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
|---|-------------------------------|-----------------------|-----------------------|------------------------|----------------|-------------------|-------------------------|
| 简支梁缺口冲击强度 | | | | | | | ISO 179 |
| -20°C | 4.5 | -- | -- | -- | -- | kJ/m ² | |
| 23°C | 7.0 | -- | -- | -- | -- | kJ/m ² | |
| 悬壁梁缺口冲击强度 | | | | | | | |
| -20°C | -- | 39 | 39 | -- | 49 | J/m | ASTM D256 |
| 0°C | -- | 49 | 49 | -- | -- | J/m | ASTM D256 |
| 23°C | -- | 69 | 69 | -- | 74 | J/m | ASTM D256 |
| -20°C | 4.0 | -- | -- | -- | -- | kJ/m ² | ISO 180 |
| -20°C | -- | -- | -- | 5.0 | -- | kJ/m ² | ASTM D256 |
| 23°C | 7.5 | -- | -- | -- | -- | kJ/m ² | ISO 180 |
| 23°C | -- | -- | -- | 9.0 | -- | kJ/m ² | ASTM D256 |
| 硬度 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
| 洛氏硬度 | | | | | | | |
| R 级 | -- | 85 | 85 | 86 | 90 | | ASTM D785 |
| R 计秤 | 100 | -- | -- | -- | -- | | ISO 2039-2 |
| 热性能 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
| 载荷下热变形温度 | | | | | | | |
| 0.45 MPa, 未退火 | -- | 110 | 110 | 118 | -- | °C | ASTM D648 |
| 0.45 MPa, 未退火 | 114 | -- | -- | -- | -- | °C | ISO 75-2/B |
| 1.8 MPa, 未退火 | 57.0 | -- | -- | -- | -- | °C | ISO 75-2/A |
| 维卡软化温度 | | | | | | | |
| -- | -- | -- | -- | -- | 150 | °C | ASTM D1525 |
| -- | -- | -- | -- | 149 | -- | °C | ASTM D1525 ⁴ |
| -- | 148 | -- | -- | -- | -- | °C | ISO 306/A50 |
| -- | 80.0 | -- | -- | -- | -- | °C | ISO 306/B50 |
| 熔融温度 (DSC) | 165 | -- | -- | -- | -- | °C | ISO 3146 |
| 可燃性 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
| UL 阻燃等级 | -- | -- | -- | HB | -- | | UL 94 |
| 补充信息 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 | 测试方法 |
| Accelerated Oven Aging - in Air (150°C) | -- | -- | -- | -- | 15.0 | day | ASTM D3012 |



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|--------------------------------|-------------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------|-----|------------|
| DuPont Impact Strength (-10°C) | -- | -- | -- | -- | > 1.96 | J | ASTM D2794 |
| Heat Deflection Temperature | -- | -- | -- | -- | 110 | °C | ASTM D648 |

| 注射 | TOTAL Polypropylene PPC 10642 | Hanwha Total PP BI850 | Hanwha Total PP BI800 | Petro Rabigh PP AZ564G | YUPLENE® B391G | 单位制 |
|------------|-------------------------------------|-----------------------------|-----------------------------|------------------------------|-------------------|-----|
| 加工 (熔体) 温度 | -- | -- | -- | 190 到 230 | -- | °C |

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 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。
- ³ 一般属性：这些不能被视为规格。
- ⁴ 压 力1 (10N)



购买地点

| 供应商 | |
|-------------------------------|---|
| TOTAL Polypropylene PPC 10642 | TOTAL Refining & Chemicals Houston, TX USA 电话: 713-483-5000 Web: http://www.totalrefiningchemicals.com/ |
| Hanwha Total PP BI850 | Hanwha Total Petrochemical Co., Ltd. Seoul, South Korea 电话: +82-2-3415-9408 Web: http://www.hanwha-total.com/ |
| Hanwha Total PP BI800 | Hanwha Total Petrochemical Co., Ltd. Seoul, South Korea 电话: +82-2-3415-9408 Web: http://www.hanwha-total.com/ |
| Petro Rabigh PP AZ564G | Rabigh Refining & Petrochemical Co. Rabigh, Saudi Arabia 电话: +966-2-425-0390 Web: http://www.petrorabigh.com |
| YUPLENE® B391G | SK Global Chemical Seoul, South Korea 电话: +82-2-2121-5114 Web: http://eng.skglobalchemical.com/ |
| 分销商 | |
| TOTAL Polypropylene PPC 10642 | Plastrubion 电话: +44-845-345-4560 Web: http://www.plastrubion.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 |
| Hanwha Total PP BI850 | CISKO Plastics (HK) Limited 电话: +86-18027555338 Web: http://www.ciskoplas.en.ec21.com 供货地区: China |



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|------------------------|--|
| Hanwha Total PP BI800 | CISKO Plastics (HK) Limited 电话: +86-18027555338 Web: http://www.ciskoplas.en.ec21.com 供货地区: China |
| Petro Rabigh PP AZ564G | 请联系供应商以便为 Petro Rabigh PP AZ564G 查找分销商 |
| YUPLENE® B391G | 请联系供应商以便为 YUPLENE® B391G 查找分销商 |

