

| Technical Data          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                             |                                         |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|-----------------------------------------|
| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                             |                                         |
| Braskem PP<br>5E16S     | Good processability, contains antistatic additive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                             |                                         |
|                         | Applications<br>Suggested uses include caps and closures, thin-wall containers and serveware applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                             |                                         |
| TAIRIPRO®<br>K1035      | Injection Molding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                             |                                         |
|                         | CHARACTERISTICS: High fluidity, Good stiffness, Good luster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                             |                                         |
| Jampilen<br>HP564S      | <p>"Jampilen HP564S" is a high melt fow rate homopolymer with a narrow molecular weight distribution for the high speed production of low denier continuous filament for spunbonded, nonwoven fabrics with an excellent balance of mechanical properties and softness. This grade is formulated with an anti-gasfading stabilization package and characterized by consistent high speed and low nonwoven weights. The major applications for spunbonded fabrics made of "Jampilen HP564S" are diapers, medical and sanitary tissues, protective fabrics for agricultural, industrial and medical applications, backings and llinings for the fumiture and carpet industries. This grade can also be used for the production of partially oriented yarn and bulked continuous filament. "Jampilen HP564S" is suitable for food contact.</p> |                                         |                             |                                         |
|                         | <p>Features:</p> <ul style="list-style-type: none"><li>• High melt flow</li><li>• Controlled rheology</li><li>• Narrow molecular weight distribution</li><li>• Easy processability</li><li>• Gasfading resistant</li><li>• Homopolymer</li></ul> <p>Typical Applications:</p> <ul style="list-style-type: none"><li>• Spunbonded, nonwoven fabrics</li><li>• Fabrics for diapers, feminine care, medical and sanitary tissues</li><li>• Protective fabrics for agricultural, industrial and medical applications</li><li>• Backings and linings for the fumiture and carpet industries</li><li>• Oriented yarn and bulked continuous filament</li><li>• Wipe and Tissues</li></ul>                                                                                                                                                         |                                         |                             |                                         |
| TAIRIPRO®<br>S1040      | Multi-Filament                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |                             |                                         |
|                         | CHARACTERISTICS: Controlled rheology, Compact spinning, Anti gas-fading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                             |                                         |
| General                 | Braskem PP<br>5E16S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TAIRIPRO®<br>K1035                      | Jampilen<br>HP564S          | TAIRIPRO®<br>S1040                      |
| Manufacturer / Supplier | • Braskem America Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | • Formosa Chemicals & Fibre Corporation | • Jam Polypropylene Company | • Formosa Chemicals & Fibre Corporation |
| Generic Symbol          | • PP 均聚物                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | • PP 均聚物                                | • PP 均聚物                    | • PP 均聚物                                |
| Material Status         | • 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                              |



此数据表中的信息由 UL Prospector 从该材料的生产商处获得。UL Prospector 尽最大努力确保此数据的准确性。但是 UL Prospector 对这些数据值不承担任何责任，并强烈建议在最终选择材料前，就数据值与材料供应商进行验证。



| General            | Braskem PP 5E16S                | TAIRIPRO® K1035                                           | Jampilen HP564S                                                                      | TAIRIPRO® S1040                                           |
|--------------------|---------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 资料 <sup>1</sup>    | • Technical Datasheet (English) | • Processing (English)<br>• Technical Datasheet (English) | • Technical Datasheet (English)                                                      | • Processing (English)<br>• Technical Datasheet (English) |
| UL 黄卡 <sup>2</sup> | --                              | • E162823-224736                                          | --                                                                                   | --                                                        |
| 搜索 UL 黄卡           | • Braskem America Inc.          | • Formosa Chemicals & Fibre Corporation<br>• TAIRIPRO®    | --                                                                                   | • Formosa Chemicals & Fibre Corporation<br>• TAIRIPRO®    |
| Availability       | • 北美洲                           | • 北美洲<br>• 欧洲<br>• 亚太地区                                   | • 非洲和中东<br>• 欧洲<br>• 亚太地区                                                            | • 北美洲<br>• 欧洲<br>• 亚太地区                                   |
| Additive           | • 抗静电性                          | --                                                        | • 防烟熏褪色                                                                              | --                                                        |
| Features           | • 抗静电性<br>• 良好的加工性能             | • 均聚物<br>• 良好刚性<br>• 流动性高                                 | • 均聚物<br>• 抗气体褪色性<br>• 可控流变<br>• 良好的加工性能<br>• 流动性高<br>• 食品接触的合规性<br>• 窄分子量分布         | • 均聚物<br>• 抗气体褪色性<br>• 可控流变                               |
| Uses               | • 薄壁容器<br>• 护罩<br>• 容器<br>• 外壳  | --                                                        | • BCF 线<br>• 地毯背衬<br>• 纺粘无纺布<br>• 纺织应用<br>• 卫浴产品<br>• 细丝<br>• 线<br>• 医疗/护理用品<br>• 织物 | • 细丝                                                      |
| Agency Ratings     | • FDA 21 CFR 177.1520           | • EC 1907/2006 (REACH)<br>• FDA 21 CFR 177.1520           | --                                                                                   | • EC 1907/2006 (REACH)<br>• FDA 21 CFR 177.1520           |
| RoHS Compliance    | --                              | • RoHS 合规                                                 | --                                                                                   | • RoHS 合规                                                 |
| UL File Number     | --                              | • E162823                                                 | --                                                                                   | • E162823                                                 |
| Processing Method  | --                              | • 注射成型                                                    | • 细丝挤出<br>• 纤维 ( 纺纱 ) 挤出                                                             | • 细丝挤出                                                    |

| Physical                                  | Braskem PP<br>5E16S | TAIRIPRO®<br>K1035 | Jampilen<br>HP564S | TAIRIPRO®<br>S1040 | 单位制      | 测试方法            |
|-------------------------------------------|---------------------|--------------------|--------------------|--------------------|----------|-----------------|
| Density / Specific Gravity                |                     |                    |                    |                    |          |                 |
| --                                        | --                  | 0.898              | --                 | 0.898              | g/cm³    | ASTM D792       |
| --                                        | --                  | --                 | 0.900              | --                 | g/cm³    | ASTM D1505      |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 40                  | 38                 | 40                 | 34                 | g/10 min | ASTM D1238      |
| Molding Shrinkage - 流动 (23°C)             | --                  | 1.4 到 1.8          | --                 | --                 | %        | Internal Method |
| Mechanical                                | Braskem PP<br>5E16S | TAIRIPRO®<br>K1035 | Jampilen<br>HP564S | TAIRIPRO®<br>S1040 | 单位制      | 测试方法            |
| Tensile Strength                          |                     |                    |                    |                    |          | ASTM D638       |
| 屈服 4                                      | 31.7                | --                 | --                 | --                 | MPa      |                 |
| 屈服                                        | --                  | --                 | 33.0               | --                 | MPa      |                 |
| 屈服, 23°C                                  | --                  | 33.0               | --                 | 34.0               | MPa      |                 |
| Tensile Elongation                        |                     |                    |                    |                    |          | ASTM D638       |
| 屈服                                        | --                  | --                 | 8.0                | --                 | %        |                 |
| 屈服 4                                      | 7.0                 | --                 | --                 | --                 | %        |                 |
| 断裂, 23°C                                  | --                  | > 50               | --                 | > 50               | %        |                 |
| Flexural Modulus                          |                     |                    |                    |                    |          |                 |
| --                                        | --                  | --                 | 1500               | --                 | MPa      | ASTM D790       |
| 23°C                                      | --                  | 1370               | --                 | 1470               | MPa      | ASTM D790A      |
| 1% 正割 5                                   | 1350                | --                 | --                 | --                 | MPa      | ASTM D790A      |
| Impact                                    | Braskem PP<br>5E16S | TAIRIPRO®<br>K1035 | Jampilen<br>HP564S | TAIRIPRO®<br>S1040 | 单位制      | 测试方法            |
| Notched Izod Impact                       |                     |                    |                    |                    |          |                 |
| 23°C                                      | --                  | --                 | 30                 | --                 | J/m      | ASTM D256       |
| 23°C                                      | 27                  | --                 | --                 | --                 | J/m      | ASTM D256A      |
| 23°C, 3.18 mm                             | --                  | 20                 | --                 | 23                 | J/m      | ASTM D256       |
| Hardness                                  | Braskem PP<br>5E16S | TAIRIPRO®<br>K1035 | Jampilen<br>HP564S | TAIRIPRO®<br>S1040 | 单位制      | 测试方法            |
| Rockwell Hardness                         |                     |                    |                    |                    |          | ASTM D785       |
| R 级                                       | 103                 | --                 | 102                | --                 |          |                 |
| R 级, 23°C                                 | --                  | 102                | --                 | 103                |          |                 |
| Thermal                                   | Braskem PP<br>5E16S | TAIRIPRO®<br>K1035 | Jampilen<br>HP564S | TAIRIPRO®<br>S1040 | 单位制      | 测试方法            |
| Deflection Temperature Under Load         |                     |                    |                    |                    |          | ASTM D648       |
| 0.45 MPa, 未退火                             | --                  | --                 | 91.0               | --                 | °C       |                 |
| 1.8 MPa, 未退火, 6.35 mm                     | --                  | 110                | --                 | 110                | °C       |                 |
| Vicat Softening Temperature               | --                  | --                 | 155                | --                 | °C       | ASTM D1525 6    |
| Accelerated Oven Ageing (150°C)           | --                  | --                 | 360                | --                 | hr       | ASTM D3012      |



|                        |                  |                 |                 |                 |     |       |
|------------------------|------------------|-----------------|-----------------|-----------------|-----|-------|
| Flammability           | Braskem PP 5E16S | TAIRIPRO® K1035 | Jampilen HP564S | TAIRIPRO® S1040 | 单位制 | 测试方法  |
| Flame Rating           | --               | HB              | --              | --              |     | UL 94 |
| Injection              | Braskem PP 5E16S | TAIRIPRO® K1035 | Jampilen HP564S | TAIRIPRO® S1040 | 单位制 |       |
| Processing (Melt) Temp | --               | 200 到 290       | --              | --              | °C  |       |
| Mold Temperature       | --               | 30 到 50         | --              | --              | °C  |       |
| Injection Pressure     | --               | 7.85 到 11.8     | --              | --              | MPa |       |
| Extrusion              | Braskem PP 5E16S | TAIRIPRO® K1035 | Jampilen HP564S | TAIRIPRO® S1040 | 单位制 |       |
| Melt Temperature       | --               | --              | --              | 220 到 260       | °C  |       |
| Die Temperature        | --               | --              | --              | 220 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> 51 mm/min

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

<sup>6</sup> 压力 1 (10N)

## 购买地点

| 供应商              |                                                                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Braskem PP 5E16S | <b>Braskem America Inc.</b><br>Philadelphia, PA USA<br>电话: 215-841-3100<br>Web: <a href="http://www.braskem.com/">http://www.braskem.com/</a>                              |
| TAIRIPRO® K1035  | <b>Formosa Chemicals &amp; Fibre Corporation</b><br>Taipei, Taiwan<br>电话: +886-2-2712-2211<br>Web: <a href="http://en.fcfc-plastics.com/">http://en.fcfc-plastics.com/</a> |
| Jampilen HP564S  | <b>Jam Polypropylene Company</b><br>Tehran, Iran<br>电话: +98-21-84286<br>Web: <a href="http://www.jppc.ir">http://www.jppc.ir</a>                                           |
| TAIRIPRO® S1040  | <b>Formosa Chemicals &amp; Fibre Corporation</b><br>Taipei, Taiwan<br>电话: +886-2-2712-2211<br>Web: <a href="http://en.fcfc-plastics.com/">http://en.fcfc-plastics.com/</a> |



## 分销商

Braskem PP 5E16S

TAIRIPRO® K1035

请联系供应商以便为 Braskem PP 5E16S 查找分销商

**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

**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

**Resinal de México**

电话: +52-55-5254-7600

Web: <http://resinal.mx/>

供货地区: Mexico

Jampilen HP564S

TAIRIPRO® S1040

请联系供应商以便为 Jampilen HP564S 查找分销商

**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

**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

**Resinal de México**

电话: +52-55-5254-7600

Web: <http://resinal.mx/>

供货地区: Mexico