

TOTAL Polystyrene Impact 975E

高抗冲聚苯乙烯

TOTAL Refining & Chemicals

Technical Data

产品说明

Polystyrene 975E: Is a high-impact polystyrene designed for extrusion/thermoforming applications. The good environmental stress crack resistance (ESCR) properties of 975E dictate its use for dairy applications that are subjected to high butterfat. The matte finish of 975E makes it useful in a variety of custom sheet applications. Other features include excellent processability, low gloss, and FDA compliance.

Application:

- Dairy ESCR application
- Hot drink lids
- Lithographic printing
- Refrigeration liners

General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- This material holds Underwriters Laboratory recognition 94HB; see UL File E55470 at www.UL.com.
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

总体

| | | |
|-------|---|--|
| 特性 | <ul style="list-style-type: none">• 高 ESCR (抗应力开裂)• 光泽, 低 | <ul style="list-style-type: none">• 抗撞击性, 高• 可加工性, 良好 |
| 用途 | <ul style="list-style-type: none">• Thermoforming Applications• 衬里 | <ul style="list-style-type: none">• 盖子• 片材 |
| 机构评级 | <ul style="list-style-type: none">• FDA 21 CFR 177.1640 | <ul style="list-style-type: none">• USP 第VI类 |
| UL文件号 | <ul style="list-style-type: none">• E55470 | |
| 形式 | <ul style="list-style-type: none">• 粒子 | |
| 加工方法 | <ul style="list-style-type: none">• 挤出 | <ul style="list-style-type: none">• 热成型 |

| 物理性能 | 额定值 | 单位制 | 测试方法 |
|-------------------------------|-------------|-------------------|------------|
| 密度 | 1.04 | g/cm ³ | |
| 熔速率 (熔体流动速率) (200°C/5.0 kg) | 2.8 | g/10 min | ASTM D1238 |
| 收缩率 - 流动 | 0.40 到 0.70 | % | ASTM D955 |
| 湿度 | < 0.10 | % | |
| 机械性能 | 额定值 | 单位制 | 测试方法 |
| 拉伸模量 | 1590 | MPa | ASTM D638 |
| 抗张强度 | 20.0 | MPa | ASTM D638 |
| 伸长率 (断裂) | 55 | % | ASTM D638 |
| 弯曲模量 | 1860 | MPa | ASTM D790 |
| 弯曲强度 | 40.0 | MPa | ASTM D790 |
| 冲击性能 | 额定值 | 单位制 | 测试方法 |
| 悬壁梁缺口冲击强度 | 120 | J/m | ASTM D256 |
| 落锤冲击 | 11.9 | J | ASTM D3029 |
| 热性能 | 额定值 | 单位制 | 测试方法 |
| 维卡软化温度 | 98.9 | °C | ASTM D1525 |
| Heat Distortion - Annealed | 92 | °C | ASTM D648 |
| 可燃性 | 额定值 | 单位制 | 测试方法 |
| UL 阻燃等级 | HB | | UL 94 |
| 光学性能 | 额定值 | 单位制 | 测试方法 |
| Gardner 光泽度 (60°) | 60 | | ASTM D523 |

