

聚苯乙烯 (PS) Polystyrene (PS)

特性 PROPERTIES

DIAREX® 高冲击聚苯乙烯 High Impact Polystyrene

典型特性 Typical Properties :

| 特性 Properties | 测试方式 Test Method | 单位 Unit | 典型值 Typical Value | | |
|--|---------------------|--------------------|----------------------------|----------------------------|----------------------------|
| | | | H350 | H350E | H950 |
| 流动率(200°C,5kg) Melt Flow Rate (200°C, 5 kg) | ASTM D1238 | g/10 mim | 3.5 | 3.8 | 3.0 |
| 强度@屈服 Tensile Strength @ Yield | ASTM D638 | kg/cm ² | 295 | 254 | 345 |
| | | lb/in ² | 4200 | 3600 | 4900 |
| 伸展率 Elongation | ASTM D638 | % | 60 | 57 | 50 |
| 强度 Tensile Strength | ASTM D790 | kg/cm ² | 420 | 333 | 457 |
| | | lb/in ² | 6000 | 4700 | 6500 |
| 模量(×10000) Modulus (x10,000) | ASTM D790 | kg/cm ² | 1.9 | 1.8 | 1.8 |
| | | lb/in ² | 27 | 25.3 | 26 |
| 缺口冲击强度 Impact Strength | ASTM D256 | kg.cm/cm | 11 | 14 | 11 |
| | | ft.lb/in | 2 | 2.6 | 2 |
| 硬度 Rockwell Hardness | ASTM D785 | Scale | R112 | R112 | R112 |
| 耐热度(1kg) Softening Point (1 kg) | ASTM D1525 | °C | 104 | 101 | 105 |
| | | °F | 219 | 213 | 221 |
| 变形温度 Deflection Temperature (18.56 kg/cm ²) | ASTM D648 | °C | 78 | 76 | 79 |
| | | °F | 172 | 169 | 174 |
| Gardner光泽度 Gloss | ASTM D523 | % | - | - | 90 |
| 全试验所 Underwriter Laboratory | | | UL-94HB | UL-94HB | UL-94HB |
| 类型 Type | | | HIPS High Impact 高冲击 | HIPS High Impact 高冲击 | HIPS High Gloss 高光泽度 |

基于喷射模塑测试件的数据。
注：以上数据旨在为自然样本提供一个具有代表性的指导，并不一定代表保证值。
Data based on injection molding test pieces.
Note: The above data are intended to serve as a representative guide only for natural specimens and do not necessarily represent guaranteed values.

DIAREX® 通用型聚苯乙烯
DIAREX General Purpose Polystyrene

典型特性 Typical Properties :

| 特性 Properties | 测试方式 Test Method | 单位 Unit | 典型值 Typical Value | | |
|---|---------------------|--------------------|------------------------|-------------------------|-------------------------|
| | | | THF77 | THH102 | THH103 |
| 熔体流动率(200°C,5kg) Melt Flow Rate (200°C, 5 kg) | ASTM D1238 | g/10 mim | 8.4 | 2.6 | 1.7 |
| 抗张强度@屈服 Tensile Strength @ Yield | ASTM D638 | kg/cm ² | 470 | 530 | 543 |
| | | lb/in ² | 6700 | 7500 | 7700 |
| 抗张伸展率 Tensile Elongation | ASTM D638 | % | 2 | 2.5 | 2.6 |
| Izod缺口冲击强度 Izod Impact Strength | ASTM D256 | kg.cm/cm | 2.2 | 2.2 | 2.2 |
| | | ft.lb/in | 0.4 | 0.4 | 0.4 |
| 洛氏硬度 Rockwell Hardness | ASTM D785 | Scale | M80 | M80 | M80 |
| 维卡耐热度(1kg) Vicat Softening Point (1 kg) | ASTM D1525 | °C | 101 | 106 | 107 |
| | | °F | 214 | 223 | 225 |
| 热变形温度 (18.56 kg/cm ²) Deflection Temperature (18.56 kg/cm ²) | ASTM D648 | °C | 78 | 81 | 82 |
| | | °F | 172 | 178 | 180 |
| UL安全试验所 Underwriter Laboratory | | | UL-94HB | UL-94HB | UL-94HB |
| 类型 Type | | | GPPS Standard 标准 | GPPS High Heat 高热 | GPPS High Heat 高热 |

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DIAREX®

DIAREX® 牌聚苯乙烯 (PS) 由 Thai Styrenics Co., Ltd. (TSCL) 生产。我们提供两种类型的PS树脂：通用型聚苯乙烯 (GPPS) 及高冲击聚苯乙烯 (HIPS)。GPPS与 HIPS 的生产能力为6万吨/年及 3万吨/年，共9万吨一年。而且，我们提供一系列具有不同特性的 DIAREX® 产品，以供喷射模塑或挤压工艺使用。

Polystyrene (PS) under the brand DIAREX® is produced by Thai Styrenics Co., Ltd. (TSCL). We offer two categories of PS resin: General Purpose Polystyrene (GPPS) and High Impact Polystyrene (HIPS). The capacity of GPPS and HIPS are 60,000 MTA and 30,000 MTA, totally 90,000 MTA. Furthermore, we offer a wide range of DIAREX® grade with various properties for use in injection molding or extrusion process.

