

PC 1303AH-15

Description

良好的耐候性，成型性和透明度。适合汽车相关产品。

Application

汽车灯罩, 其他汽车部件, 其他电子电器, 一般产品

Key Features

良好的脱模性, 高流动, 高透明度, 耐候性

| 物性名称 | 规格 | 单位 | PC 1303AH-15 |
|----------------------------|-------------|-------------------|-----------------------|
| Physical | | | |
| 熔体流动速率 (300 °C /1.2 kg) | ASTM D1238 | g/10min | 15 |
| 密度 | ASTM D792 | kg/m ³ | 1200 |
| 收缩率 | ASTM D955 | mm/mm | 0.005~0.007 |
| 吸水率@24hr, 23°C | ASTM D570 | % | 0.15 |
| 吸水率@平衡, 50%湿度, 23°C | ASTM D570 | % | 0.32 |
| Optical | | | |
| 折射率 | ASTM D542 | | 1.586 |
| 透光率 | ASTM D1003 | % | 89 |
| 雾度 | ASTM D1003 | % | 0.7~1.5 |
| Thermal | | | |
| 负荷热变形温度@4mm, 0.45MPa, 退火 | ASTM D648 | °C | 143 |
| 负荷热变形温度@4mm, 1.8MPa, 退火 | ASTM D648 | °C | 140 |
| 负荷热变形温度@4mm, 1.8MPa, 未退火 | ASTM D648 | °C | 127 |
| 维卡软化点, 50°C/hr,50N | ASTM D1525 | °C | 148 |
| 线性热膨胀系数@-40°C—82°C | ASTM D696 | mm/mm/°C | 68 x 10 ⁻⁶ |
| Mechanical | | | |
| 拉伸屈服应力 | ASTM D638 | MPa | 60 |
| 极限拉伸强度 | ASTM D638 | MPa | 71 |
| 屈服伸长率 | ASTM D638 | % | 6 |
| 断裂伸长率 | ASTM D638 | % | 150 |
| 拉伸模量 | ASTM D638 | MPa | 2340 |
| 弯曲强度 | ASTM D790 | MPa | 96 |
| 弯曲模量 | ASTM D790 | MPa | 2410 |
| 悬臂梁缺口冲击强度@23°C | ASTM D256 | J/m | 850 |
| 无缺口悬臂梁冲击强度@23°C | ASTM D256 | | No break |
| 落镖冲击, 总能量@23°C | ASTM D3763 | J | 87 |
| 洛氏硬度 HRR | ASTM D785 | R Scale | 118 |
| 洛氏硬度 HRM | ASTM D785 | M Scale | 72 |
| 耐磨性 (D 雾度) | ASTM D1044 | % | 45 |
| Ignition Resistance | | | |
| UL-94阻燃@1.5mm | ASTM D635 | | HB |
| UL-94阻燃@3.0mm | ASTM D635 | | HB |
| 氧指数 | ASTM D2863 | % | 26 |
| 球压温度 | IEC 598-1 | °C | >125 |
| 平均燃烧距离 | ASTM D635 | mm | 25 |
| Electrical | | | |
| 灼热丝温度@2.0mm, 5秒 | IEC 695-2-1 | °C | 850 |
| 漏电起痕指数@2.0mm | IEC 112 | V | 250 |
| 介电强度 | ASTM D149 | KV/mm | 17 |

| | | | |
|----------------|-----------|------|------------------------|
| 介电常数@60Hz | ASTM D150 | | 3 |
| 损耗因数@60Hz | ASTM D150 | | 0.001 |
| 体积电阻率@23°C, 干燥 | ASTM D257 | W-cm | 2.0 x 10 ¹⁷ |

通知

1.The addition of an UV stabilizer to a resin does not completely eliminate the effects of UV exposure but to slow down the rate at which the effects occur. These effects may include color shift,

decreased mechanical properties, and/or optical properties. Actual results may vary depending on application and other factors such as resin color, transparency and additives. Therefore, actual

end-use testing is recommended

2. Typical properties; not to be constructed as specifications.

3. 0.125 in; 10 mil notch (3.2 mm; 0.25 mm notch).

4. 0.125 in; 8000 ipm (3.2 mm; 203 m/min).

5. 1,000 g; CS-10 F wheel; 500 cycles.

6. These numerical flame spread ratings are small-scale test values and are not intended to reflect hazards presented by these or any other materials under actual fire conditions. UL 94 file: E67171.

※ Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molded specimens and after 48 hours storage at 23°C, 50% relative humidity.