# 利华益维远化学股份有限公司
# Lihuayi Weiyuan Chemical Co.,Ltd.

## 通用注塑级聚碳酸酯性能 WY-111BR

| 特性<br>PROPERTIES | 测试方法<br>TEST METHOD | 测试条件<br>TEST CONDITION | 单位<br>UNIT | 通用级 GENERAL<br>WY-111BR |
|---|---|---|---|---|
| 熔融指数<br>Melt Flow Index | ISO 1133 | 300℃, 1.2 Kg | ml/10 min | 11 |
| 比重<br>Mass Density | ISO 1183 | 23℃ | $g/cm^3$ | 1.2 |
| 拉伸强度<br>Tensile Strength | ISO 527 | 50mm/min, Yield | MPa | 60.5 |
| | | 50mm/min, Fracture | MPa | 60.5 |
| 延伸率<br>Tensile Elongation | ISO 527 | 50mm/min | % | 78 |
| 弯曲强度<br>Flexural Strength | ISO 178 | 2mm/min | MPa | 94.2 |
| 弯曲弹性指数<br>Flexural Modulus | | 2mm/min | GPa | 2.43 |
| IZOD 冲击强度<br>Izod Impact Strength | ISO 180/4A | 23℃ Notched | $KJ/M^2$ | 59 |
| | | - 30℃ Notched | $KJ/M^2$ | - |
| Charpy冲击强度<br>Charpy Impact | ISO 179 | 23℃ Notched | $KJ/M^2$ | 70 |
| | | - 30℃ Notched | $KJ/M^2$ | - |
| 维氏软化温度<br>Vicat Softening Temp | ISO 306 | 1Kg, 120℃/hr | ℃ | 150 |
| | | 5Kg, 120℃/hr | ℃ | 144 |
| 热变形温度<br>Heat Distortion Temp | ISO 75/A | 1.8MPa Unannealed | ℃ | 122 |
| | | 1.8MPa Annealed | ℃ | 145 |
| 线膨胀系数<br>Coefficient of linear expansion | ISO 11359 | - | - | $7.3\times10^{-5}$ |
| UL 燃烧等级<br>UL Flammability | UL 94 | - | - | V-0 |
| 模塑收缩率<br>Formed Shrinkage | ISO 294-4 | Parallel Direction | % | 0.8 |
| | | Vertical Direction | % | 0.8 |
| RoHS Test | RoHS 2.0 | - | - | Pass |
| REACH Test | 191 SVHC | - | - | Pass |
| FDA Test | FDA Food Contact | - | - | Pass |

Responsible matters needing attention

1.The data in the data table are representative values measured in accordance with standard experimental methods, which cannot be used as performance guarantee for special purposes.

2.The combustibility in the data table is obtained from small-scale testing, which is not applicable to actual fire risk assessment.

3.If this resin is used for medical instruments, food containers and toys, please consult our company in advance.

4.If additives (such as antimicrobials, stabilizers and flame retardants, etc.) need to be added to this resin, please consult our company in advance. Our company has no guarantee or responsibility for the consequences of the addition of additives.

5.The data in the data table may be changed without notification.

6.For other matters needing attention, please refer to chemical safety specification (MSDS).

7.This product may be placed on the restricted list due to the different receiving areas, and need to be declared or prohibited from import. If your company exports or imports this product to new areas,Please confirm the local regulations in advance.