



名称: TPU
 牌号: TP-1164

| 产品简介 Product Description | 主要应用 Applications |
|--|--|
| ·透明、半透明、无色 Transparent, Translucent, Colorless | ·鞋子、鞋跟、注射件等 Shoes, heel, Injection Parts etc |
| ·优异的强度和耐磨性 Excellent strength and abrasion resistance. | ·注塑工艺 Injection Molding |

| 性能 Properties | 测试标准 Test Method | 测试条件 Test Condition | 单位 Unit | 典型值 Typical Values |
|---------------|------------------|---------------------|---------|--------------------|
|---------------|------------------|---------------------|---------|--------------------|

物理性能 Physical properties

| | | | | |
|---------------------|------------|------------|-------------------|------|
| 密度 Specific Gravity | ASTM D792 | 23℃ | g/cm ³ | 1.21 |
| 融指 MI | ASTM D1238 | | g/10min | / |
| 灰份 Ash | ISO 3451 | 800℃,30min | % | 0 |

机械性能 Mechanical properties

| | | | | |
|--|------------|---|-----------------|-----|
| 拉伸强度 Tensile Strength | ASTM D412 | / | MPa | 14 |
| 硬度 Hardness | ASTM D2240 | / | Shore D | 64 |
| 断裂伸长率 Tensile elongation | ASTM D412 | / | % | 370 |
| 扯断永久变形 Permanent deformation | ASTM D412 | / | % | 45 |
| 撕裂强度 Tear strength | ASTM D624 | / | KN/m | 220 |
| 拉伸应力 100% 应变 Stress at 100% elongation | ASTM D412 | / | MPa | 21 |
| 拉伸应力 300% 应变 Stress at 300% elongation | ASTM D412 | / | MPa | 36 |
| 抗磨损性 Abrasion resistance | ISO4649 | / | mm ³ | 45 |
| 抗张强度 Tensile strength | ASTM D412 | / | mm ³ | 42 |

热性能 Thermal properties

| | | | | |
|-------------------------------------|------------|---|---|-----|
| 玻璃转化温度 Glass transition temperature | ASTM D3417 | / | ℃ | -25 |
|-------------------------------------|------------|---|---|-----|

说明: 表中数据为本公司质量检测部门测试所得的典型值, 因为测试方法、测试环境以及一些不可控因素的存在, 可能与贵司测试结果存在些许偏差, 请根据实际情况在首次使用前进行相关测试。在使用材料之前, 请咨询拓朴新材料有限公司。

Note: The data in the table is the typical value obtained by the company's quality inspection department. Because of the test method, test environment and some uncontrollable factors, there may be some deviations from your company's test results. Please perform it before the first use according to the actual situation. Related tests. Prior to use the material, please consult with TOPO NEW Material Co., Ltd.

| 典型加工条件 Processing Conditions | 参考范围 Range | |
|------------------------------|----------------|------|
| 预干燥 Pre-Dry needed | 100-110℃, 2-3h | |
| 料筒温度 Barrel Temperature | 后段, Rear | 205℃ |
| | 中段, Center | 210℃ |
| | 前段, Front | 215℃ |
| 喷嘴温度 Nozzle temperature | 220℃ | |
| 注塑压力 Injecting pressure | 75MPa | |

说明: 以上数值仅供注塑机参考使用, 可根据不同机型、不同模具以及产品要求, 对上述工艺做适当调整。

Note: The above process condition is only for reference. The actual process should be adjusted according to different type of machine, mold design and product design.

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