



BIO SUN PA56E 000000本色

PA56无增强，注塑成型，生物基塑料 生物基含量47%

| 流变特性<br>Rheological properties                       | 测试条件 Test Condition              | 单位 Unit | 标准 Standard    |             | dry  | con  |
|--|----------------------------------|---------|----------------|-------------|------|------|
| Molding shrinkage, parallel                          | 60×60×2; 270°C/WZ<br>80°C;600bar | %       | ISO            | 294-4       | 0.18 |      |
| Molding shrinkage, normal                            | 60×60×2; 270°C/WZ<br>80°C;600bar | %       | ISO            | 294-4       | 1.1  |      |
| Post- shrinkage, parallel                            | 60×60×2; 120°C; 4h               | %       | ISO            | 294-4       | 0.2  |      |
| Post- shrinkage, normal                              | 60×60×2; 120°C; 4h               | %       | ISO            | 294-4       | 0.3  |      |
| Mechanical properties (23 ° C/50 % r. h.)            |                                  |         |                |             |      |      |
| CTensile modulus                                     | 1毫米/分钟                           | MPa     | ISO            | 527-1, -2   | 3600 | 1500 |
| CTensile Stress at break                             | 50毫米/分钟                          | MPa     | ISO            | 527-1, -2   | 85   | 50   |
| CTensile Strain at break                             | 50毫米/分钟                          | %       | ISO            | 527-1, -2   | 4.1  | >20  |
| CCharpy impact strength                              | 23°C                             | KJ/m²   | ISO            | 179-1eU     | N    | N    |
| CCharpy impact strength                              | -30°C                            | KJ/m²   | ISO            | 179-1eU     | N    | N    |
| CCharpy notched impact strength                      | 23°C                             | KJ/m²   | ISO            | 179-1eU     | <11  | <20  |
|  | -30°C                            | KJ/m²   |                | 180-1u      | <10  | 10   |
| Izod impact strength                                 | 23°C                             | KJ/m²   |                | 180-1u      | 140  | N    |
| Izod notched impact strength                         |                                  | KJ/m²   | ISO            | 180-1A      | <11  | <11  |
| Thermal properties                                   |                                  |         |                |             |      |      |
| CMelting temperature                                 | 10°C/分                           | °C      | ISO            | 11357-1. -3 | 245  |      |
| CTemperature of deflection under load                | 0.45MPa                          | °C      | ISO306         | 75-1, -2    | 180  |      |
| Vicat softening temperature                          | 50N;120°C/h                      | °C      | ISO            |             | 210  |      |
| CCoefficient of linear thermal expansion, parallel   | 23 to 55°C                       | 10/K    | ISO            | 11359-1, -2 | 0.8  |      |
| CCoefficient of linear thermal expansion, transverse | 23 to 55°C                       | 10/K    | ISO            | 11359-1, -2 | 0.7  |      |
| CBurning behavior UL 94 (1.6 mm)                     | 0.4 毫米                           | Class   | UL 94          |             | HB   |      |
| COxygen index  | 方法A                              | %       | ISO 4589-2     |             | 35   |      |
| Glow wire test (GWFI)                                | 0.4毫米                            | °C      | IEC 60695-2-12 |             | 600  |      |
| Electrical properties (23 ° C/50 % r. h.)            |                                  |         |                |             |      |      |
| CComparative tracking index CTI                      | 解决方案一                            | 评级      | IEC 60112      |             | 600  |      |
| Other properties (23 ° C)                            |                                  |         |                |             |      |      |
| CDensity   |                                  | KG/m³   | ISO 1183       |             | 1169 |      |