

# SABIC® PP PHC27

抗冲击共聚聚丙烯

SABIC

## Technical Data

### 产品说明

SABIC® PP PHC27 combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. Thanks to very low tendency to warp, it is typically used for injection moulding of crates & boxes, suitcase shells and automotive parts.

Health, Safety and Food Contact regulations:

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site

<http://www.SABIC.com>

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

This grade material is UL registered under File E111275 ([www.ul.com](http://www.ul.com)) / IMDS 80775790

### 总览

|      |                    |            |              |
|------|--------------------|------------|--------------|
| 添加剂  | • 成核剂: No          | • 抗静电性: No | • 紫外线稳定剂: No |
| 汽车要求 | • IMDS ID 80775790 |            |              |

### 物理性能

| 物理性能                         | 额定值   | 单位制      | 测试方法       |
|------------------------------|-------|----------|------------|
| 密度                           | 0.905 | g/cm³    | ASTM D1505 |
| 熔速率 (熔体流动速率) (230°C/2.16 kg) | 14    | g/10 min | ISO 1133   |

### 机械性能

| 机械性能      | 额定值  | 单位制 | 测试方法            |
|-----------|------|-----|-----------------|
| 拉伸模量      | 1000 | MPa | ISO 527-1/1A/1  |
| 拉伸应力 (屈服) | 21.0 | MPa | ISO 527-2/1A    |
| 拉伸应变 (屈服) | 6.0  | %   | ISO 527-2/1A/50 |

### 冲击性能

| 冲击性能              | 额定值 | 单位制   | 测试方法        |
|-------------------|-----|-------|-------------|
| 简支梁缺口冲击强度         |     |       | ISO 179/1eA |
| -20°C             | 8.0 | kJ/m² |             |
| 0°C               | 15  | kJ/m² |             |
| 23°C              | 60  | kJ/m² |             |
| 简支梁无缺口冲击强度 (23°C) | 无断裂 |       | ISO 179/1eU |
| 悬臂梁缺口冲击强度         |     |       | ISO 180/1A  |
| -20°C             | 9.0 | kJ/m² |             |
| 0°C               | 13  | kJ/m² |             |
| 23°C              | 无断裂 |       |             |

### 硬度

| 硬度          | 额定值 | 单位制 | 测试方法    |
|-------------|-----|-----|---------|
| 肖氏硬度 (邵氏 D) | 60  |     | ISO 868 |

### 热性能

| 热性能                    | 额定值  | 单位制 | 测试方法         |
|------------------------|------|-----|--------------|
| 载荷下热变形温度 <sup>3</sup>  |      |     |              |
| 0.45 MPa, 未退火, 4.00 mm | 80.0 | °C  | ISO 75-2/Bf  |
| 1.8 MPa, 未退火, 4.00 mm  | 50.0 | °C  | ISO 75-2/Af  |
| 维卡软化温度                 |      |     |              |
| --                     | 65.0 | °C  | ISO 306/B120 |
| --                     | 145  | °C  | ISO 306/A120 |

