



# SABIC<sup>®</sup> PP PHC28

## PP IMPACT COPOLYMER

### DESCRIPTION

SABIC<sup>®</sup> PP PHC28 is the new development of SABICs very high impact PHC series. The grade combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. By its design it is offering potential of cycle time reduction, of down gauging and easiness of processing. PHC28 is typically used for injection moulding of applications requiring high impact from low to thick wall thickness such as suitcase shells, electronic equipment and automotive parts. SABIC<sup>®</sup> PP PHC28 is putting the combined stiffness and flow of very high impact copolymers to a next level.

### TYPICAL PROPERTY VALUES

| PROPERTIES                            | TYPICAL VALUES                      | UNITS             | TEST METHODS |
|---------------------------------------|-------------------------------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>             |                                     |                   |              |
| <b>Melt Flow Rate</b>                 |                                     |                   |              |
| at 230 °C and 2.16 kg                 | 20                                  | dg/min            | ISO 1133     |
| <b>Density</b>                        | 905                                 | kg/m <sup>3</sup> | ASTM D1505   |
| <b>FORMULATION</b>                    |                                     |                   |              |
| <b>UV stabilized</b>                  | <input type="checkbox"/>            | -                 | -            |
| <b>Anti static agent</b>              | <input type="checkbox"/>            | -                 | -            |
| <b>Nucleating agent</b>               | <input checked="" type="checkbox"/> | -                 | -            |
| <b>MECHANICAL PROPERTIES</b>          |                                     |                   |              |
| <b>Tensile test</b>                   |                                     |                   |              |
| stress at yield                       | 21                                  | MPa               | ISO 527-2 1A |
| tensile modulus <sup>(1)</sup>        | 1100                                | MPa               | ISO 527-2 1A |
| strain at yield <sup>(2)</sup>        | 6                                   | %                 | ISO 527-2 1A |
| <b>Izod impact notched</b>            |                                     |                   |              |
| at -20 °C                             | 7                                   | kJ/m <sup>2</sup> | ISO 180/1A   |
| at 0 °C                               | 12                                  | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>Izod impact notched</b>            |                                     |                   |              |
| at 23 °C                              | No Break                            | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>Charpy Impact Strength Notched</b> |                                     |                   |              |
| at 23 °C                              | 60                                  | kJ/m <sup>2</sup> | ISO 179/1eA  |
| at -20 °C                             | 8                                   | kJ/m <sup>2</sup> | ISO 179/1eA  |
| at 0 °C                               | 13                                  | kJ/m <sup>2</sup> | ISO 179/1eA  |

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min

### QUALITY

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.