



SABIC® PP PHC27

PP block copolymer for Injection moulding

Description:

This grade combines very high impact resistance, also at low temperatures, with a good stiffness and offers very good flow properties. Due to its narrow molecular weight distribution and very low tendency to warp, it is highly suitable 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-europe.com>

Typical values

Revision 20080327

| Properties | Unit (Si) | Values | Test methods |
|--|-------------------|-----------------|--------------|
| Polymer properties | | | |
| Melt flow rate (MFR) at 230 °C and 2.16 kg | g/10 min | 14 | ISO 1133 |
| Density | kg/m ³ | 905 | ISO 1183 |
| Mechanical properties | | | |
| Tensile test | | | ISO 527 |
| stress at yield | MPa | 22 | |
| stress at break | MPa | 19 | |
| strain at break | % | 600 | |
| Flexural test | | | ASTM D 790 |
| Flexural modulus | MPa | 1200 | |
| Izod impact notched | | | ISO 180/4A |
| at 23 °C | kJ/m ² | No Break | |
| at 0 °C | kJ/m ² | 9.0 | |
| at -20 °C | kJ/m ² | 6.0 | |
| Charpy impact notched | | | ISO 179 |
| at 23 °C | kJ/m ² | 31 | |
| at 0 °C | kJ/m ² | 12.5 | |
| at -20 °C | kJ/m ² | 7.0 | |
| Hardness Shore D | - | 66 | ISO 868 |
| Thermal properties | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | °C | 52 | ISO 75/A |
| at 0.45 MPa (HDT/B) | °C | 87 | ISO 75/B |
| Vicat softening temperature | | | |
| at 10 N (VST/A) | °C | 140 | ISO 306/A |
| at 50 N (VST/B) | °C | 57 | ISO 306/B |

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