



SABIC® PP 612MK46

PP block copolymer for Injection moulding

Description:

This grade is especially developed for pails and containers. Special characteristics of this grade are a high crystallisation temperature, very high flow in combination with medium impact performance and low taste influences. This enables outstanding processability, very easy mould filling, short cycle times and an optimal grade for food-contact applications. SABIC® PP 612MK46 is formulated with a combined processing and antistatic additive package. It is also available in a general purpose additive package.

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 | 33 | ISO 1133 |
| Density | kg/m ³ | 905 | ISO 1183 |
| Mechanical properties | | | |
| Tensile test | | | ISO 527 |
| stress at yield | MPa | 27 | |
| stress at break | MPa | 18 | |
| strain at break | % | 200 | |
| Flexural test | | | ASTM D 790 |
| Flexural modulus | MPa | 1450 | |
| Izod impact notched | | | ISO 180/4A |
| at 23 °C | kJ/m ² | 8.0 | |
| at 0 °C | kJ/m ² | 5.0 | |
| at -20 °C | kJ/m ² | 4.0 | |
| Charpy impact notched | | | ISO 179 |
| at 23 °C | kJ/m ² | 9.0 | |
| at 0 °C | kJ/m ² | 5.5 | |
| at -20 °C | kJ/m ² | 4.0 | |
| Hardness Shore D | - | 67 | ISO 868 |
| Thermal properties | | | |
| Heat deflection temperature | | | |
| at 1.80 MPa (HDT/A) | °C | 55 | ISO 75/A |
| at 0.45 MPa (HDT/B) | °C | 102 | ISO 75/B |
| Vicat softening temperature | | | |
| at 10 N (VST/A) | °C | 147 | ISO 306/A |
| at 50 N (VST/B) | °C | 70 | ISO 306/B |

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