

SABIC® PP 58MNK10

PP IMPACT COPOLYMER

DESCRIPTION

This grade combines an excellent stiffness with high impact resistance. It has a low tendency to warp. Excellent flow in combination with high crystallisation speed enables outstanding processability aiming at easy mould filling and short cycle times. Thanks to the mentioned performance this grade is typically used in several kinds of containers. The excellent gloss level makes this material also favourable for household applications.

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>. This product is not intended for and must not be used in any pharmaceutical/medical applications.

This grade material is UL registered under File E111275 (www.ul.com), IMDS 80775790

TYPICAL PROPERTY VALUES

Revision 20240126

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|-------------------------------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 15 | dg/min | ISO 1133 |
| Density | 905 | kg/m ³ | ASTM D 1505 |
| FORMULATION | | | |
| Anti static agent | <input type="checkbox"/> | - | - |
| Nucleating agent | <input checked="" type="checkbox"/> | - | - |
| MECHANICAL PROPERTIES | | | |
| Tensile test | | | |
| strain at yield ⁽¹⁾ | 4 | % | ISO 527-2 1A |
| stress at yield | 27 | MPa | ISO 527-2 1A |
| tensile modulus ⁽²⁾ | 1550 | MPa | ISO 527-2 1A |
| Izod impact notched | | | |
| at 0 °C | 7 | kJ/m ² | ISO 180/1A |
| at 23 °C | 11 | kJ/m ² | ISO 180/1A |
| at -20 °C | 6 | kJ/m ² | ISO 180/1A |
| Charpy Impact Strength Notched | | | |
| at -20 °C | 6 | kJ/m ² | ISO 179/1eA |
| at 0 °C | 8 | kJ/m ² | ISO 179/1eA |
| at 23 °C | 12.5 | kJ/m ² | ISO 179/1eA |
| Hardness Shore D | 65 | - | ISO 868 |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature ⁽³⁾ | | | |
| at 0.45 MPa (HDT/B) | 100 | °C | ISO 75 |
| at 1.80 MPa (HDT/A) | 60 | °C | ISO 75 |
| Vicat Softening Temperature ⁽⁴⁾ | | | |
| at 10 N (VST/A) | 151 | °C | ISO 306 |
| at 50 N (VST/B) | 80 | °C | ISO 306 |

- (1) Speed of testing: 50 mm/min
- (2) Speed of testing: 1 mm/min
- (3) Flat wise (testbar 80*10*4mm)
- (4) Temperature rate: 120°C/h

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.

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