



SABIC[®] PP 48M10

PP IMPACT COPOLYMER

DESCRIPTION

SABIC[®] PP 48M10 has good flow characteristics, high stiffness and good impact strength. It is typically used for articles with complex shapes, such as crates and boxes, rigid packaging and components for the automotive and electro-technical industries. This grade is also available with an antistatic additive package, namely SABIC[®] PP 48M40.

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). IMDS 80775790

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate | | | |
| at 230 °C and 2.16 kg | 15 | dg/min | ISO 1133 |
| Density | 905 | kg/m ³ | ASTM D1505 |
| FORMULATION | | | |
| Anti static agent | □ | - | - |
| Nucleating agent | □ | - | - |
| MECHANICAL PROPERTIES | | | |
| Tensile test | | | |
| strain at yield | 5 | % | ISO 527-2 1A |
| tensile modulus ⁽¹⁾ | 1400 | MPa | ISO 527-2 1A |
| stress at yield ⁽²⁾ | 26 | MPa | ISO 527-2 1A |
| Izod impact notched | | | |
| at -20 °C | 5 | kJ/m ² | ISO 180/1A |
| at 0 °C | 7 | kJ/m ² | ISO 180/1A |
| at 23 °C | 8 | kJ/m ² | ISO 180/1A |
| Charpy Impact Strength Notched | | | |
| at -20 °C | 6 | kJ/m ² | ISO 179/1eA |
| at 23 °C | 11 | kJ/m ² | ISO 179/1eA |
| at 0 °C | 7 | kJ/m ² | ISO 179/1eA |
| Hardness Shore D | 65 | - | ISO 868 |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature ⁽³⁾ | | | |
| at 0.45 MPa (HDT/B) | 90 | °C | ISO 75 |
| at 1.80 MPa (HDT/A) | 55 | °C | ISO 75 |
| Vicat Softening Temperature ⁽⁴⁾ | | | |
| at 50 N (VST/B) | 79 | °C | ISO 306 |
| at 10 N (VST/A) | 151 | °C | ISO 306 |