



SABIC[®] PP 56M10

PP IMPACT COPOLYMER

DESCRIPTION

SABIC[®] PP 56M10 has high impact resistance, even at low temperatures, and high stiffness. It is typically used in a variety of applications e.g. containers and crates & boxes. It is also used in automotive components, like for example battery cases.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate | | | |
| at 230 °C and 2.16 kg | 6.2 | 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⁾ | 27 | MPa | ISO 527-2 1A |
| Izod impact notched | | | |
| at -20 °C | 5 | kJ/m ² | ISO 180/1A |
| at 23 °C | 11 | kJ/m ² | ISO 180/1A |
| at 0 °C | 7 | kJ/m ² | ISO 180/1A |
| Charpy Impact Strength Notched | | | |
| at 0 °C | 8 | kJ/m ² | ISO 179/1eA |
| at 23 °C | 12.5 | kJ/m ² | ISO 179/1eA |
| at -20 °C | 6 | kJ/m ² | ISO 179/1eA |
| Hardness Shore D | 65 | - | ISO 868 |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature ⁽³⁾ | | | |
| at 0.45 MPa (HDT/B) | 85 | °C | ISO 75 |
| at 1.80 MPa (HDT/A) | 55 | °C | ISO 75 |
| Vicat Softening Temperature ⁽⁴⁾ | | | |
| at 50 N (VST/B) | 78 | °C | ISO 306 |
| at 10 N (VST/A) | 152 | °C | ISO 306 |