

SABIC® PP FPC100

PP IMPACT COPOLYMER FLOWPACT

DESCRIPTION

SABIC® PP FPC100 has been developed as a new member of the SABIC® PP FLOWPACT range dedicated to the thin wall packaging market. It is nucleated and is characterized by a high crystallization temperature and excellent flow behaviour in combination with a nice stiffness to impact balance.

This grade is typically used for high-speed injection moulding and it enables very cost efficient processing on the basis of easy mould filling and very short cycle times. It has a very good antistatic performance and permitseasy demoulding. This material is typically used in thin wall packing applications both for food and non-food segments. This includes yellow fats/margarine tubs, dairy packaging and housewares. The grade has an excellent dimensional stability what is crucial for the thin wall packaging market.

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.

IMDS 80775790

TYPICAL PROPERTY VALUES

Revision 20190320

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 100 | dg/min | ISO 1133 |
| Density | 905 | kg/m³ | ASTM D1505 |
| FORMULATION | | | |
| Anti static agent | ☑ | - | - |
| Nucleating agent | ☑ | - | - |
| MECHANICAL PROPERTIES | | | |
| Tensile test | | | |
| stress at yield | 25 | MPa | ISO 527-2 1A |
| strain at yield ⁽¹⁾ | 4 | % | ISO 527-2 1A |
| tensile modulus ⁽²⁾ | 1600 | MPa | ISO 527-2 1A |
| Izod impact notched | | | |
| at 0 °C | 4 | kJ/m² | ISO 180/1A |
| at 23 °C | 5.5 | kJ/m² | ISO 180/1A |
| Charpy Impact Strength Notched | | | |
| at 23 °C | 8 | kJ/m² | ISO 179/1eA |
| at 0 °C | 6 | kJ/m² | ISO 179/1eA |
| Hardness Shore D | 62 | - | ISO 868 |
| THERMAL PROPERTIES | | | |
| Heat deflection temperature ⁽³⁾ | | | |
| at 0.45 MPa (HDT/B) | 95 | °C | ISO 75 |
| at 1.80 MPa (HDT/A) | 55 | °C | ISO 75 |
| Vicat Softening Temperature ⁽⁴⁾ | | | |
| at 10 N (VST/A) | 150 | °C | ISO 306 |
| at 50 N (VST/B) | 76 | °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.

DISCLAIMER

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