

SABIC® PP 505P

PP HOMOPOLYMER

DESCRIPTION

SABIC® PP 505P is a low mfi grade typically used in extrusion applications like sheet and thermoforming.

Application: SABIC® PP 505P is typically used in dairy, flower pots, yellow fats and disposables plates and cups. However, customers use this grade also in combination with fillers like Talc and CaCO₃.

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 grade material is UL registered under File E111275 (www.ul.com)

TYPICAL PROPERTY VALUES

Revision 20210702

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|--------------------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 230 °C and 2.16 kg | 2.0 | dg/min | ISO 1133 |
| Density | 905 | kg/m ³ | ASTM D1505 |
| Molecular Weight Distribution | Broad | - | - |
| Isotacticity | Medium | - | - |
| FORMULATION | | | |
| Anti static agent | <input type="checkbox"/> | - | - |
| Nucleating agent | <input type="checkbox"/> | - | - |
| Gas fading stabilized | <input type="checkbox"/> | - | SABIC method |
| MECHANICAL PROPERTIES | | | |
| Tensile test | | | |
| strain at yield ⁽¹⁾ | 10 | % | ISO 527-2 1A |
| stress at yield | 37 | MPa | ISO 527-2 1A |
| tensile modulus ⁽²⁾ | 1500 | MPa | ISO 527-2 1A |
| Izod impact notched | | | |
| at 23 °C | 3.5 | kJ/m ² | ISO 180/1A |
| Charpy Impact Strength Notched | | | |
| at 23 °C | 4.5 | kJ/m ² | ISO 179/1eA |
| 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 10 N (VST/A) | 152 | °C | ISO 306 |
| at 50 N (VST/B) | 88 | °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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