



PP 49MK45

PP Impact co-polymer for Injection Molding

Product Description

PP 49MK45 is specially developed for producing injection molded articles. This grade contains nucleating- & antistatic agents. It has medium flow properties, good impact resistance (even at low temperature) and good stiffness.

Typical Applications

PP 49MK45 can be used for Housewares, Garden Furniture, Toys, Appliances, Pails & Containers.

Typical data

| Properties | Unit | Value ⁽¹⁾ | ASTM Method |
|---|-------------------|----------------------|-------------|
| Resin Properties | | | |
| Melt Flow Rate @ 230°C & 2.16 kg load | g/10 min. | 21 | D 1238 |
| Density @ 23°C | kg/m ³ | 905 | D 792 |
| Mechanical Properties ⁽²⁾ | | | |
| Tensile Strength @ Yield | MPa | 29 | D 638 |
| Tensile Elongation @ Yield | % | 5 | D 638 |
| Flexural Modulus (1% Secant) | MPa | 1400 | D 790A |
| | | 1600 | D 790B |
| Notched Izod Impact Strength @ 23°C | J/m | 65 | D 256 |
| Notched Izod Impact Strength @ -20 °C | J/m | 35 | D256 |
| Rockwell Hardness, R-Scale | - | 95 | D 785 |
| Thermal Properties⁽²⁾ | | | |
| Vicat Softening Point | °C | 150 | D 1525A |
| Heat Deflection Temperature @ 455 KPa | °C | 106 | D 648 A |

(1) Typical values; not to be construed as specification limits.

(2) Based on injection molded specimens.

Processing Conditions

Barrel temperature range: 200 - 250°C.

Mold Shrinkage: 1.2 - 2.5% depending on wall thickness and processing conditions.

Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

Food Regulation

PP 49MK45 is suitable for food contact application. For the certificate please contact SABIC local representative.

Storage and Handling

PP resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery. Detailed information is provided in the relevant Material Safety Data Sheet (MSDS).

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