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Revision 20220721

SABIC® PP 412MK49

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP 412MK49 is specially developed for producing injection molded articles. This grade contains nucleating and antistatic agents. It has high flow properties and excellent impact – stiffness balance.

TYPICAL APPLICATIONS

SABIC® PP 412MK49 can be used for housewares, toys, appliances and thin-walled containers (food and non-food).

TYPICAL PROPERTY VALUES

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** POLYMER PROPERTIES (1) Melt Flow Rate (MFR) ASTM D1238 at 230°C and 2.16kg 45 a/10 min Density at 23°C 905 kg/m³ ASTM D792 MECHANICAL PROPERTIES (2) **Tensile Properties** Strength @ Yield 28 MPa ASTM D638 Elongation @ Yield 4 % ASTM D638 ASTM D790 A Flexural Modulus (1% Secant) 1450 MPa Izod Impact Strength notched, at 23°C 55 J/m ASTM D256 notched, at -20°C ASTM D256 33 J/m Rockwell Hardness, R-Scale 100 ASTM D785 THERMAL PROPERTIES Vicat Softening Temperature 150 °C ASTM D1525 Heat deflection temperature °C ASTM D648 at 455kPa 112

(1) Typical values, not to be construed as specific limits

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Barrel temperature range: 200 - 245°C Mold Shrinkage: 1.2 - 2.0% depending on wall thickness and processing conditions. Mold Temperature: Normally 15 - 40°C, up to 65°C for thick parts.

STORAGE AND HANDLING

Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not 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.



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