

Revision 20210507

SABIC® PP 56M65

POLYPROPYLENE IMPACT COPOLYMER FOR INJECTION MOLDING

DESCRIPTION

SABIC® PP 56M65 is specially developed for producing injection molded articles requiring a good resistance to long term heat exposure. This grade contains high heat stabilizer additive & has good heat aging resistance and good impact - stiffness balance.

TYPICAL APPLICATIONS

SABIC® PP 56M65 can be used for battery cases, pails and containers and crates and boxes.

TYPICAL PROPERTY VALUES

TEST METHODS PROPERTIES TYPICAL VALUES UNITS POLYMER PROPERTIES (1) Melt Flow Rate (MFR) at 230°C and 2.16kg g/10 min ASTM D1238 7.0 Density at 23°C ASTM D792 905 kg/m³ MECHANICAL PROPERTIES (2) **Tensile Properties** 27 ASTM D638 Strength @ Yield MPa Elongation @ Yield 7.6 % ASTM D638 Flexural Modulus (1% Secant) 1150 ASTM D790 A MPa Izod Impact Strength notched, at 23°C 97 J/m ASTM D256 notched, at -20°C 40 J/m ASTM D256 Rockwell Hardness, R-Scale 85 ASTM D785 THERMAL PROPERTIES Vicat Softening Temperature 150 °C ASTM D1525 Heat deflection temperature °C ASTM D648 at 455kPa 85

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

(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for 56M65 are:

Barrel temperature range: 200 - 250°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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CHEMISTRY THAT MATTERS



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