

SABIC® PP 5705P

PP HOMOPOLYMER

DESCRIPTION

SABIC® PP 5705P is a polypropylene homopolymer resin for injection molding application. It exhibits high stiffness, good heat resistance and good flow characteristic.

TYPICAL APPLICATIONS

SABIC® PP 5705P can be used to produce furniture, housewares, caps & closures, containers and toys. This product is not intended for use in medical and pharmaceutical applications.

TYPICAL PROPERTY VALUES

Revision 20230421

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	15	g/10 min	ASTM D1238
Density	905	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile Strength at Yield	34	MPa	ASTM D638
Tensile Strength at Break	28	MPa	ASTM D638
Flexural Modulus (1% Secant)	1700	MPa	ASTM D790 A
Izod Impact Strength			
Notched, 23°C	2	kJ/m²	ISO 180
THERMAL PROPERTIES			
Vicat Softening Point	152	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	116	°C	ASTM D648

PROCESSING CONDITIONS

Typical Processing conditions for 5705P are:
Recommended melt temperature : 160 – 240 °C

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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