

SABIC® PP 5705PR

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 5705PR is a homopolymer polypropylene resin and is typically used for injection molding applications. Molded parts made from this resin typically exhibits high stiffness, good heat resistance and good flow characteristic.

TYPICAL APPLICATIONS

General purpose, housewares.

This product is not intended for use in medical and pharmaceutical applications.

TYPICAL PROPERTY VALUES

Revision 20230511

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	15	g/10 min	ASTM D1238
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 , Notched, 23 °C	2	kJ/m ²	ISO 180
Rockwell Hardness, R-Scale	105	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Point	158	°C	ASTM D1525
Heat Deflection Temperature at 455kPa	116	°C	ASTM D648

PROCESSING CONDITIONS

Typical processing conditions for 5705PR 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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