

# SABIC® PP 5271K

POLYPROPYLENE HOMOPOLYMER FOR SHEET & THERMOFORMING

## DESCRIPTION

SABIC® PP5271K is a high crystallinity polypropylene homopolymer grade specifically developed for in-line and off-line thermoforming applications. SABIC® PP 5271K encompasses the following features: very high stiffness, very good clarity, very high heat distortion temperature, very good dimensional stability, good processability and fast molding cycle.

## TYPICAL APPLICATIONS

SABIC® PP5271K is suitable for the production of high transparency cups, trays, lids and various containers with high stiffness.

## TYPICAL PROPERTY VALUES

Revision 20211206

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES <sup>(1)</sup></b>			
<b>Melt Flow Rate (MFR)</b>			
@ 230°C & 2.16 kg load	3	g/10 min	ASTM D1238
<b>Density</b>			
@ 23°C	905	kg/m <sup>3</sup>	ASTM D792
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
<b>Tensile Strength at Yield</b>	38	MPa	ASTM D638
<b>Tensile Elongation at Yield</b>	8	%	ASTM D638
<b>Flexural Modulus (1% Secant)</b>	2000	MPa	ASTM D790 A
<b>Notched Izod Impact Strength at 23°C</b>	30	J/m	ASTM D256
<b>Rockwell Hardness, R-Scale</b>	103	-	ASTM D785
<b>OPTICAL PROPERTIES</b>			
<b>Haze, 1 mm</b>	17	%	ASTM D1003
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point</b>	155	°C	ASTM D1525
<b>Heat Deflection Temperature at 455kPa</b>	120	°C	ASTM D648

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

(2) Based on injection molded specimens

## 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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