

SABIC® PP 5281K

POLYPROPYLENE HOMOPOLYMER FOR THERMOFORMING

DESCRIPTION

SABIC® PP 5281K is a polypropylene homopolymer nucleated grade intended for Thermoforming characterized by ease of processing and fast cycle time. Sheet made from this resin exhibit excellent mechanical property, high stiffness, excellent clarity & very good dimensional stability.

TYPICAL APPLICATIONS

SABIC® PP 5281K is used for:

- In-line Thermoforming
- Off-line Thermoforming

TYPICAL PROPERTY VALUES

Revision 20251022

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	3.0	g/10 min	ASTM D1238
Density			
at 23°C	0.9	g/cm³	ASTM D792
MECHANICAL PROPERTIES			
Flexural Modulus	1500	MPa	ASTM D790
Flexural Strength	40	MPa	ASTM D790
Izod impact notched			
at 23°C	4.0	kJ/m²	ASTM D256
Rockwell Hardness, R-Scale	98	-	ASTM D785
FILM PROPERTIES ⁽¹⁾			
Tensile Properties			
Strength @ Yield	34	MPa	ASTM D638
Elongation @ Yield	9.0	%	ASTM D638
Strength @ Break	19	MPa	ASTM D638
Elongation @ Break	165	%	ASTM D638
THERMAL PROPERTIES ⁽¹⁾			
Heat deflection temperature			
@ 0.45 MPa	120	%	ASTM D648

(1) Test specimen preparation Method: Pursuant to ASTM D4101

PROCESSING CONDITIONS

Recommended Extrusion Temperature: 230 - 260 °C

FOOD REGULATION

Please visit SABIC website.

© 2025 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



STORAGE AND HANDLING

SABIC® PP 5281K should be stored in a dry cool place with adequate ventilation and protected from UV light at temperatures below 50 °C. It is advisable to process polypropylene resins within 6 months after delivery.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

PETROMALL

