SABIC® PP 5002P

PROVISIONAL DATA SHEET POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 5002P is a polypropylene homopolymer multipurpose grade used for extrusion, injection and thermoforming applications, formulated with a low watercarry-over additive package.

TYPICAL APPLICATIONS

SABIC® PP 5002P has excellent stretch ability and is therefore suitable for tapes and strapping, high tenacity yarns and carpet backing. It can also be used in monofilaments, ropes and twines, woven bags, flexible intermediate bulk containers, geotextiles and concrete reinforcements.
For thermoforming it shows a unique balance between transparency, impact resistance and thickness uniformity.
SABIC® PP 5002P is also suitable for production of injection molded articles e.g. caps and closures and house ware products, where this grade shows a high stiffness, combined with a fair impact resistance and very good surface hardness.

TYPICAL PROPERTY VALUES

Revision 20210525

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES (1)			
Melt Flow Rate (MFR)			
at 230°C and 2.16kg	3.4	g/10 min	ISO 1133
MECHANICAL PROPERTIES (2)			
Tensile Stress at Yield	34	MPa	ISO 527-1/-2
Flexural Modulus	1400	MPa	ISO 178/1A

(1) Typical values, not to be construed as specific limits.
(2) Based on injection molded specimens

PROCESSING CONDITIONS

Typical processing conditions for SABIC® PP 5002P are:
Barrel temperature range: 235 - 250°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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