SABIC® PP 524P

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 524P is particularly developed for (biaxially) oriented PP film extrusion with a very specific molecular structure providing the ultimate properties required for the stretching process.

TYPICAL APPLICATIONS

SABIC® PP 524P is typically used in mono layer or coextruded (B)OPP film. SABIC® PP 524P is known for its excellent metallisation behaviour. It can also be used as base material for plain film used for stationary, food bags, synthetic paper and heat sealable packaging films.

TYPICAL PROPERTY VALUES

Revision 20210812

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	2.0	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
Molecular Weight Distribution	Broad	-	-
Isotacticity	Medium	-	-
FORMULATION			
Anti block agent	☐	-	-
Slip agent	☐	-	-
Anti static agent	☐	-	-
Nucleating agent	☐	-	-
MECHANICAL PROPERTIES			
Tensile test			
strain at yield [1]	10	%	ISO 527-2 1A
tensile modulus [2]	1500	MPa	ISO 527-2 1A
stress at yield	37	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	3.5	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	4.5	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
Heat deflection temperature			
at 0.45 MPa (HDT/B)	85	°C	ISO 75
at 1.80 MPa (HDT/A)	55	°C	ISO 75
Vicat Softening Temperature [3]			
at 50 N (VST/B)	88	°C	ISO 306
at 10 N (VST/A)	152	°C	ISO 306

(1) Speed of testing: 50 mm/min
(2) Speed of testing: 1 mm/min
(3) Temperature rate: 120°C/h

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QUALITY

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO9001.

PROCESSING CONDITIONS

Typical processing conditions for 524P are:

Average extrusion temperature range may be kept at 245 - 255°C.

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Material Safety Data Sheets (MSDS) and Product Safety declarations are available on our Internet site http://www.SABIC.com. For additional specific information please contact SABIC local representative.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

This grade material is UL registered under File E111275 (www.ul.com).

IMDS 7172624

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.

DISCLAIMER

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