

SABIC® PP 510P

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 510P is a fibre grade with an anti gas fading stabilisation package. This grade is suitable for e.g. wipes and industrial carpets.

TYPICAL APPLICATIONS

SABIC® PP 510P is suitable for spinning of coarse staple fibres, carpet fibres, yarns and geotextiles with moderate tenacity. It can be also used for the production of continuous filament.

TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	12	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
Molecular Weight Distribution	Broad	-	-
Isotacticity	Medium	-	-
FORMULATION			
Anti block agent	<input type="checkbox"/>	-	-
Slip agent	<input type="checkbox"/>	-	-
Anti static agent	<input type="checkbox"/>	-	-
Nucleating agent	<input type="checkbox"/>	-	-
Gas fading stabilized	<input checked="" type="checkbox"/>	-	SABIC method
MECHANICAL PROPERTIES			
Tensile test			
strain at break	600	%	ISO 527
tensile modulus ⁽¹⁾	1700	MPa	ISO 527-2 1A
strain at yield ⁽²⁾	11	%	ISO 527-2 1A
stress at break	-	MPa	ISO 527
stress at yield	35	MPa	ISO 527-2 1A
Flexural test			
Flexural modulus	1700	MPa	ASTM D790
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 50 N (VST/B)	82	°C	ISO 306/B
at 10 N (VST/A)	153	°C	ISO 306/A

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min

PROCESSING CONDITIONS

Typical processing conditions for 510P are:

Average extrusion temperature range may be kept at 210 - 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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