

SABIC® PP 5051P

POLYPROPYLENE HOMOPOLYMER

DESCRIPTION

SABIC® PP 5051P is a polypropylene homopolymer resin for yarn extrusion. The yarn made from this resin exhibits excellent mechanical properties & low water carryover.

TYPICAL APPLICATIONS

SABIC® PP 5051P can be used to produce woven sacks, woven fabric, monofilament, box strap, rope & straw. This product is not intended for use in medical and pharmaceutical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 230°C/2.16 kg	2.2	g/10 min	ASTM D1238
Density	905	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES ^{(1) (2)}			
Tensile Strength at Yield	33	MPa	ASTM D638
Tensile Elongation at Yield	9	%	ASTM D638
Tensile Strength at Break	19	MPa	ASTM D638
Tensile Elongation at Break	155	%	ASTM D638
Flexural Modulus (1% Secant)	1300	MPa	ASTM D790 A
Flexural Strength	34	MPa	ASTM D790
Izod Impact , Notched, 23 °C	3.0	kJ/m ²	ISO 180
Rockwell Hardness, R-Scale	98	-	ASTM D785
THERMAL PROPERTIES ^{(1) (2)}			
Vicat Softening Temperature	152	°C	ASTM D1525

(1) Typical values only, not to be construed as specification limits

(2) Test specimen preparation method : Pursuant to ASTM D4101

