



SABIC[®] PP 531PH

PP HOMOPOLYMER

DESCRIPTION

SABIC[®] PP 531Ph has a high molecular weight and therefore mainly used for extrusion. It is typically used for non-pressure pipes and sheet applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	0.30	dg/min	ISO 1133
Density	905	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
strain at yield ⁽¹⁾	9	%	ISO 527-2 1A
stress at yield	37	MPa	ISO 527-2 1A
tensile modulus ⁽²⁾	1600	MPa	ISO 527-2 1A
Izod impact notched			
at 23 °C	6.0	kJ/m ²	ISO 180/1A
at -20 °C	2.5	kJ/m ²	ISO 180/1A
at 0 °C	3.5	kJ/m ²	ISO 180/1A
Charpy Impact Strength Notched			
at 23 °C	6.0	kJ/m ²	ISO 179/1eA
at 0 °C	3.5	kJ/m ²	ISO 179/1eA
at -20 °C	2.5	kJ/m ²	ISO 179/1eA
Charpy impact unnotched			
at 23 °C	No Break	kJ/m ²	ISO 179/1eU
Hardness Shore D	70	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽³⁾			
at 1.80 MPa (HDT/A)	55	°C	ISO 75
at 0.45 MPa (HDT/B)	85	°C	ISO 75
Vicat Softening Temperature ⁽⁴⁾			
at 10 N (VST/A)	156	°C	ISO 306
at 50 N (VST/B)	98	°C	ISO 306