



SABIC® PS 500

GENERAL PURPOSE POLYSTYRENE

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 200 °C and 5 kg	13	dg/min	ASTM D1238
MECHANICAL PROPERTIES			
Tensile test ⁽¹⁾			
tensile modulus	3400	MPa	ASTM D638
tensile elongation	2	%	ASTM D638
tensile strength	40	MPa	ASTM D638
Flexural test			
Flexural strength	73	MPa	ASTM D790
Flexural modulus	3100	MPa	ASTM D790
Izod impact notched at 23 °C ⁽²⁾	20	J/m	ASTM D256A
THERMAL PROPERTIES ⁽³⁾			
Heat deflection temperature			
Method B, 455 KPa, annealed	94	°C	ASTM D648
Vicat Softening Temperature			
Rate A, 1 kg/50 °C	97	°C	ASTM D1525

(1) Speed of testing: 5 mm/min

(2) Thickness of test specimens: 3 mm

(3) Based on injection moulded test specimens