

## Overview of materials for PC/ABS + Stainless Steel

Category : Polymer , Thermoplastic , ABS Polymer , PC/ABS + Stainless Steel , Polycarbonate (PC)

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PC/ABS + Stainless Steel". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-PCABS-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-PCABS-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	1.19 - 1.52 g/cc	0.0430 - 0.0549 lb/in <sup>3</sup>	Average value: 1.31 g/cc Grade Count:8
Filler Content	5.00 - 20.0 %	5.00 - 20.0 %	Average value: 9.40 % Grade Count:5
Water Absorption	0.100 - 0.120 %	0.100 - 0.120 %	Average value: 0.107 % Grade Count:6
Linear Mold Shrinkage	0.00100 - 0.0100 cm/cm	0.00100 - 0.0100 in/in	Average value: 0.00525 cm/cm Grade Count:7

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	51.7 - 70.0 MPa	7500 - 10200 psi	Average value: 61.7 MPa Grade Count:6
Elongation at Break	2.00 - 10.0 %	2.00 - 10.0 %	Average value: 4.96 % Grade Count:7
Modulus of Elasticity	2.69 - 5.50 GPa	390 - 798 ksi	Average value: 3.34 GPa Grade Count:6
Flexural Yield Strength	82.7 - 134 MPa	12000 - 19500 psi	Average value: 102 MPa Grade Count:7
Flexural Modulus	2.34 - 3.79 GPa	340 - 550 ksi	Average value: 3.04 GPa Grade Count:7
Izod Impact, Notched	0.427 - 5.87 J/cm	0.800 - 11.0 ft-lb/in	Average value: 1.43 J/cm Grade Count:7
Izod Impact, Unnotched	2.14 - 10.7 J/cm	4.00 - 20.0 ft-lb/in	Average value: 6.83 J/cm Grade Count:5

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 - 130 °C	235 - 266 °F	Average value: 120 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	104 - 120 °C	220 - 248 °F	Average value: 112 °C Grade Count:6
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:5

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 10000 ohm-cm	1.00 - 10000 ohm-cm	Average value: 1690 ohm-cm Grade Count:7
Surface Resistance	1.00 - 1.00e+6 ohm	1.00 - 1.00e+6 ohm	Average value: 573000 ohm Grade Count:7
Static Decay	0.100 - 2.00 sec	0.100 - 2.00 sec	Average value: 1.68 sec Grade Count:6

Processing Properties	Metric	English	Comments
Processing Temperature	232 - 266 °C	450 - 510 °F	Average value: 249 °C Grade Count:5
Mold Temperature	50.0 - 93.3 °C	122 - 200 °F	Average value: 70.4 °C Grade Count:6
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:5

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China