



**TAITALAC 1000**  
**ABS Resin**

**Acrylonitrile Butadiene Styrene (ABS) Resin**

Characteristics	Applications
<ul style="list-style-type: none"> <li>• Injection</li> <li>• Medium high impact</li> <li>• Good flow for process</li> <li>• High gloss</li> </ul>	<ul style="list-style-type: none"> <li>• Toy and furniture components</li> <li>• Office equipment</li> <li>• Kitchen appliances / House-ware</li> <li>• Battery / Shoes</li> </ul>

Properties	Test	Test Condition	SI unit	
			Unit	s.p.
<b>Rheological Properties</b>				
Specific Gravity	ISO 1183	23°C	g/cm <sup>3</sup>	<b>1.03</b>
Melt Volume Rate	ISO 1133	220°C, 10kg load	cm <sup>3</sup> /10min	<b>16.0</b>
<b>Mechanical Properties</b>				
Izod Impact Strength	ISO 180/1A	23°C, Notched	KJ/m <sup>2</sup>	<b>23</b>
Charpy impact strength	ISO 179/1A	23°C, Notched	KJ/m <sup>2</sup>	<b>24</b>
Tensile Strength at Yield	ISO 527	23°C, 50 mm/min	MPa	<b>43</b>
Tensile Strength at Break	ISO 527	23°C, 50 mm/min	MPa	<b>34</b>
Elongation at Break	ISO 527	23°C, 50 mm/min	%	<b>30</b>
Flexural Yield	ISO 178	23°C, 2.0 mm/min	MPa	<b>67</b>
Flexural Modulus	ISO 178	23°C, 2.0 mm/min	GPa	<b>1.9</b>
<b>Thermal Properties</b>				
Heat Distortion Temperature	ISO 75	unannealing 1.8MPa	°C	<b>84</b>
Vicat Softening Temperature	ISO 306	50°C/hr, 1 kg load	°C	<b>96</b>
<b>Physical Properties</b>				
Rockwell Hardness	ISO 2039-2	23°C, R-scale	R-scale	<b>105</b>
Mold Shrinkage	ISO 294-4	60×60×2mm S <sub>Flow</sub>	%	≤ <b>0.4</b>
Moisture Absorption Equilibrium	ISO 62	23°C/50% RH	wt %	≤ <b>0.3</b>
<b>Flammability</b>				
	UL-94	1/16 inch	No E50263	<b>HB</b>
<b>Electrical</b>				
Relative Temperature Index	UL-746B	0.062 inch above	°C	<b>60</b>
Hot Wire Ignition	UL-746A	0.062 inch above	Secs	<b>17</b>
High Current Arc Ignition	UL-746A	0.062 inch above	Arcs	<b>200</b>
Arc Tracking Rate	UL-746A	0.062 inch above	in/min	<b>0</b>

Note : The data listed represent average values and are believed to be reliable. They are given for information; no guarantee of their accuracy is made.