



**TAITALAC 5000S**  
**ABS Resin**

**Acrylonitrile Butadiene Styrene (ABS) Resin**

Characteristics	Applications
<ul style="list-style-type: none"> <li>● Injection</li> <li>● Medium impact</li> <li>● Good flow for process</li> <li>● High gloss</li> <li>● High rigidity</li> </ul>	<ul style="list-style-type: none"> <li>● Tape recorders</li> <li>● Video cassettes</li> <li>● Clocks</li> <li>● Office equipment</li> <li>● House-ware</li> </ul>

Properties	Test	Test Condition	SI unit	
			Unit	s.p.
<b>Rheological Properties</b>				
Specific Gravity	ASTM D792	23°C	g/cm <sup>3</sup>	1.04
Melt Volume Rate	ASTM D1238	200°C, 5kg load	g/10min	2.1
Melt Volume Rate	ASTM D1238	220°C, 10kg load	g/10min	23.0
<b>Mechanical Properties</b>				
Izod Impact Strength	ASTMD256	23°C, 1/4" Notched	kg-cm/cm	16
Izod Impact Strength	ASTMD256	23°C, 1/8" Notched	kg-cm/cm	16
Tensile Strength at Yield	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	480
Tensile Strength at Break	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	380
Elongation at Break	ASTMD638	23°C, 5 mm/min	%	20
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	800
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	30000
<b>Thermal Properties</b>				
Heat Distortion Temperature	ASTMD648	unannealing 1.8MPa	°C	85
Vicat Softening Temperature	ASTMD1525	50°C/hr, 1 kg load	°C	104
<b>Physical Properties</b>				
Rockwell Hardness	ASTMD785	23°C, R-scale	R-scale	119
Mold Shrinkage	ASTMD955	60×60×2mm S <sub>Flow</sub>	%	≤ 0.4
Moisture Absorption Equilibrium	ASTMD570	23°C/50% RH	wt %	≤ 0.3
<b>Flammability</b>				
	UL-94	1/16 inch	No E50263	HB
<b>Electrical</b>				
Relative Temperature Index	UL-746B	0.062 inch above	°C	60
Hot Wire Ignition	UL-746A	0.062 inch above	Secs	15
High Current Arc Ignition	UL-746A	0.062 inch above	Arcs	15
Arc Tracking Rate	UL-746A	0.062 inch above	in/min	0

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.