



# TAITALAC 1000D

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>Gloss</li> </ul>	<ul style="list-style-type: none"> <li>Telephone housing / House-ware</li> <li>Office Automation</li> <li>Electrical appliances</li> <li>Office equipment / Kitchen appliances</li> <li>plating Wheel cap / radiator grille</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>	1.03
Melt Volume Rate	ASTM D1238	200°C, 5kg load	g/10min	1.8
Melt Volume Rate	ASTM D1238	220°C, 10kg load	g/10min	18
<b>Mechanical Properties</b>				
Izod Impact Strength	ASTMD256	23°C, 1/4" Notched	kg-cm/cm	22
Izod Impact Strength	ASTMD256	23°C, 1/8" Notched	kg-cm/cm	25
Tensile Strength at Yield	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	430
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	%	30
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	720
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	25000
<b>Thermal Properties</b>				
Heat Distortion Temperature	ASTMD648	unannealing 1.8MPa	°C	86
Vicat Softening Temperature	ASTMD1525	50°C/hr , 1 kg load	°C	103
<b>Physical Properties</b>				
Rockwell Hardness	ASTMD785	23°C, R-scale	R-scale	110
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	17
High Current Arc Ignition	UL-746A	0.062 inch above	Arcs	200
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.