



**TAITALAC 3000P**  
**ABS Resin**

**Acrylonitrile Butadiene Styrene (ABS) Resin**

**Characteristics**

- Super high impact strength and rigidity
- Extrusion/Injection
- Low temperature high impact resistant

**Applications**

- Automobile parts
- Motorcycle parts
- Helmets
- Low temperature use

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	0.8
Melt Volume Rate	ASTM D1238	220°C, 10kg load	g/10min	9.0
<b>Mechanical Properties</b>				
Izod Impact Strength	ASTMD256	23°C, 1/4" Notched	kg-cm/cm	40
Izod Impact Strength	ASTMD256	23°C, 1/8" Notched	kg-cm/cm	47
Tensile Strength at Yield	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	360
Tensile Strength at Break	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	330
Elongation at Break	ASTMD638	23°C, 5 mm/min	%	50
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	580
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	20000
<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	100
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	-
Hot Wire Ignition	UL-746A	0.062 inch above	Secs	-
High Current Arc Ignition	UL-746A	0.062 inch above	Arcs	-
Arc Tracking Rate	UL-746A	0.062 inch above	in/min	-

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.