



# TAITALAC 3100M

## ABS Resin

### Acrylonitrile Butadiene Styrene (ABS) Resin

Characteristics	Applications
<ul style="list-style-type: none"> <li>Extrusion/Injection</li> <li>High rubber content</li> <li>Super high impact strength and rigidity</li> <li>High fatigue resistance</li> </ul>	<ul style="list-style-type: none"> <li>Shoes</li> <li>Extruded plate</li> <li>Vacuum molding</li> <li>Compounding</li> <li>Extruded film</li> <li>Refrigerator</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	0.6
Melt Volume Rate	ASTM D1238	220°C, 10kg load	g/10min	7.0
<b>Mechanical Properties</b>				
Izod Impact Strength	ASTMD256	23°C, 1/4" Notched	kg-cm/cm	32
Izod Impact Strength	ASTMD256	23°C, 1/8" Notched	kg-cm/cm	37
Tensile Strength at Yield	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	390
Tensile Strength at Break	ASTMD638	23°C, 5 mm/min	kg/cm <sup>2</sup>	340
Elongation at Break	ASTMD638	23°C, 5 mm/min	%	40
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	600
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm <sup>2</sup>	21000
<b>Thermal Properties</b>				
Heat Distortion Temperature	ASTMD648	unannealing 1.8MPa	°C	86
Vicat Softening Temperature	ASTMD1525	50°C/hr, 1 kg load	°C	101
<b>Physical Properties</b>				
Rockwell Hardness	ASTMD785	23°C, R-scale	R-scale	101
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.