

**TAITALAC 5000M**

ABS Resin

Acrylonitrile Butadiene Styrene (ABS) Resin

Characteristics	Applications
• Injection • Medium impact • High gloss • High rigidity	• 3C exterior parts • Video cassettes • Clocks • Office equipment • House-ware

Properties	Test	Test Condition	SI unit	
			Unit	s.p.
Rheological Properties				
Specific Gravity	ISO 1183	23°C	g/cm³	1.03
Melt Volume Rate	ISO 1133	220°C , 10kg load	cm³/10min	19
Mechanical Properties				
Izod Impact Strength	ISO 180/1A	23°C , Notched	KJ/m²	20
Charpy impact strength	ISO 179/1A	23°C , Notched	KJ/m²	21
Tensile Strength at Yield	ISO 527	23°C , 50 mm/min	MPa	48
Tensile Strength at Break	ISO 527	23°C , 50 mm/min	MPa	37
Elongation at Break	ISO 527	23°C , 50 mm/min	%	30
Flexural Yield	ISO 178	23°C , 2.0 mm/min	MPa	76
Flexural Modulus	ISO 178	23°C , 2.0 mm/min	GPa	2.2
Thermal Properties				
Heat Distortion Temperature	ISO 75	unannealing 1.8MPa	°C	85
Vicat Softening Temperature	ISO 306	50°C/hr , 1 kg load	°C	102
Physical Properties				
Rockwell Hardness	ISO 2039-2	23°C , R-scale	R-scale	110
Mold Shrinkage	ISO 294-4	60×60×2mm S _{Flow}	%	≤ 0.4
Moisture Absorption Equilibrium	ISO 62	23°C/50% RH	wt %	≤ 0.3
Flammability				
	UL-94	1/16 inch	No E50263	HB
Electrical				
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

