



TAITALAC 1003
ABS Resin

Acrylonitrile Butadiene Styrene (ABS) Resin

Characteristics	Applications
<ul style="list-style-type: none"> • Injection • High impact • High flow for process • High productivity 	<ul style="list-style-type: none"> • Electrical appliances • Large complex shaped products • precision molding • Houseware, 3C product case • office equipment / OA supplies

Properties	Test	Test Condition	SI unit	
			Unit	s.p.
Rheological Properties				
Specific Gravity	ISO 1183	23°C	g/cm ³	1.03
Melt Volume Rate	ISO 1133	220°C, 10kg load	cm ³ /10min	34
Mechanical Properties				
Izod Impact Strength	ISO 180/1A	23°C, Notched	KJ/m ²	22
Charpy impact strength	ISO 179/1A	23°C, Notched	KJ/m ²	23
Tensile Strength at Yield	ISO 527	23°C, 50 mm/min	MPa	40
Tensile Strength at Break	ISO 527	23°C, 50 mm/min	MPa	32
Elongation at Break	ISO 527	23°C, 50 mm/min	%	30
Flexural Yield	ISO 178	23°C, 2.0 mm/min	MPa	64
Flexural Modulus	ISO 178	23°C, 2.0 mm/min	GPa	2.0
Thermal Properties				
Heat Distortion Temperature	ISO 75	unannealing 1.8MPa	°C	85
Vicat Softening Temperature	ISO 306	50°C/hr, 1 kg load	°C	101
Physical Properties				
Rockwell Hardness	ISO 2039-2	23°C, R-scale	R-scale	102
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

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.