



TAITALAC 1003

ABS Resin

Acrylonitrile Butadiene Styrene (ABS) Resin

Characteristics	Applications
- Injection - High impact - High flow for process - High productivity	- 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	ASTM D792	23°C	g/cm³	1.03
Melt Volume Rate	ASTM D1238	200°C, 5kg load	g/10min	3.5
Melt Volume Rate	ASTM D1238	220°C, 10kg load	g/10min	35
Mechanical Properties				
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	24
Tensile Strength at Yield	ASTMD638	23°C, 5 mm/min	kg/cm²	370
Tensile Strength at Break	ASTMD638	23°C, 5 mm/min	kg/cm²	330
Elongation at Break	ASTMD638	23°C, 5 mm/min	%	40
Flexural Yield	ASTMD790	23°C, 2.8 mm/min	kg/cm²	670
Flexural Modulus	ASTMD790	23°C, 2.8 mm/min	kg/cm²	25000
Thermal Properties				
Heat Distortion Temperature	ASTMD648	unannealing 1.8MPa	°C	85
Vicat Softening Temperature	ASTMD1525	50°C/hr , 1 kg load	°C	102
Physical Properties				
Rockwell Hardness	ASTMD785	23°C, R-scale	R-scale	107
Mold Shrinkage	ASTMD955	60×60×2mm S _{Flow}	%	≤ 0.4
Moisture Absorption Equilibrium	ASTMD570	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	-
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.