

Taitalac® 1000T

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac® 1000T is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of Taitalac® 1000T are:

Flame Rated

Fatigue Resistant

High Gloss

Impact Resistant

Typical applications include:

Consumer Goods

Housings

Appliances

Electrical/Electronic Applications

Furniture

General Information			
UL YellowCard	E50263-241880		
Features	Fatigue Resistant		
	Good Flow		
	High Gloss		
	Medium Impact Resistance		
Uses	Appliances		
	Batteries		
	Electrical Housing		
	Footwear		
	Furniture		
	Television Housings		
	Toys		
UL File Number	E50263		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.8	g/10 min	
220°C/10.0 kg	18	g/10 min	
Molding Shrinkage - Flow	< 0.40	%	ASTM D955
Water Absorption (Saturation)	< 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18 mm	40.0	MPa	
Break, 23°C, 3.18 mm	35.2	MPa	
Tensile Elongation ² (Break, 23°C, 3.18 mm)	30	%	ASTM D638
Flexural Modulus ³ (23°C)	2340	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 23°C)	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	260	J/m	
23°C, 6.35 mm	230	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 12.7 mm)	86.0	°C	ASTM D648
Vicat Softening Temperature ⁵	103	°C	ASTM D1525 ⁶
RTI Elec (1.57 mm)	60.0	°C	UL 746
RTI Imp (1.57 mm)	60.0	°C	UL 746
RTI Str (1.57 mm)	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
High Amp Arc Ignition (HAI) (1.57 mm)	200		UL 746
High Voltage Arc Tracking Rate (HVTR) (1.57 mm)	0.00	mm/min	UL 746
Hot-wire Ignition (HWI) (1.57 mm)	17	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		
5.	1/8 in		
6.	Loading 1 (10 N)		

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