

Taitalac® 5000S

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac® 5000S is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

Taitalac®The main features of 5000S are:

flame retardant/rated flame

high gloss

high liquidity

Good processability

Hard

Typical application areas include:

Electrical/electronic applications

electrical appliances

home apps

General Information			
UL YellowCard	E50263-241890		
Features	Rigidity, high		
	Highlight		
	Workability, good		
	High liquidity		
	Medium impact resistance		
Uses	Electrical appliances		
	Household goods		
	Audio tape		
UL File Number	E50263		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	2.3	g/10 min	ASTM D1238
220°C/10.0 kg	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow	< 0.40	%	ASTM D955
Water Absorption (24 hr)	< 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18mm	46.9	MPa	ASTM D638

Fracture, 23°C, 3.18mm	37.2	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.18 mm)	20	%	ASTM D638
Flexural Modulus ³ (23°C)	2900	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 23°C)	78.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	160	J/m	ASTM D256
23°C, 6.35 mm	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	83.0	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525 ⁵
RTI Elec (1.57 mm)	60.0	°C	UL 746
RTI Imp (1.57 mm)	60.0	°C	UL 746
RTI (1.57 mm)	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
High Amp Arc Ignition (HAI) (1.57 mm)	15.0		UL 746
High Voltage Arc Tracking Rate (HVTR) (1.57 mm)	0.00	mm/min	UL 746
Hot-wire Ignition (HWI) (1.57 mm)	15	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 85.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	185 - 215	°C	
Middle Temperature	195 - 225	°C	
Front Temperature	185 - 215	°C	
Nozzle Temperature	205 - 235	°C	
Processing (Melt) Temp	170 - 180	°C	
Mold Temperature	40.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.483	MPa	
Screw Speed	30 - 100	rpm	
Injection instructions			
Injection Pressure: Moderate to Moderately High			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		
5.	压 力1 (10N)		

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