

Taitalac® 8540T

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac®8540T 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 8540T are:

flame retardant/rated flame

Flame Retardant

high liquidity

Impact resistance

Typical application areas include:

Electrical/electronic applications

electrical appliances

Movie

business/office supplies

General Information			
UL YellowCard	E50263-241903		
Features	High liquidity		
	Medium impact resistance		
	Flame retardancy		
Uses	Films		
	Computer components		
	Electrical appliances		
	Business equipment		
UL File Number	E50263		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	5.0	g/10 min	ASTM D1238
220°C/10.0 kg	45	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)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18mm	37.2	MPa	ASTM D638
Fracture, 23°C, 3.18mm	29.6	MPa	ASTM D638

Tensile Elongation ² (Break, 23°C, 3.18 mm)	20	%	ASTM D638
Flexural Modulus ³ (23°C)	2140	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 23°C)	58.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	190	J/m	ASTM D256
23°C, 6.35 mm	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	77.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°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)	10.0		UL 746
High Voltage Arc Tracking Rate (HVTR)	107	mm/min	UL 746
Hot-wire Ignition (HWI) (1.57 mm)	57	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.59 mm	V-0		UL 94
3.18 mm	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 75.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	170 - 200	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	170 - 200	°C	
Nozzle Temperature	190 - 220	°C	
Processing (Melt) Temp	165 - 175	°C	
Mold Temperature	40.0 - 70.0	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.345 - 0.483	MPa	
Screw Speed	30 - 100	rpm	
Injection instructions			
Injection Pressure: Low to Moderate			
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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