

Taitalac® 8520

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac®8520 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 the 8520 are:

- flame retardant/rated flame
- Flame Retardant
- Impact resistance
- good weather resistance

Typical application areas include:

- Electrical/electronic applications
- business/office supplies

General Information			
UL YellowCard	E50263-241899		
Features	Good weather resistance		
	Medium impact resistance		
	Flame retardancy		
Uses	Computer components		
	Business equipment		
UL File Number	E50263		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	3.0	g/10 min	ASTM D1238
220°C/10.0 kg	30	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)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18mm	39.3	MPa	ASTM D638
Fracture, 23°C, 3.18mm	31.7	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.18 mm)	20	%	ASTM D638
Flexural Modulus ³ (23°C)	2480	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	180	J/m	ASTM D256
23°C, 12.7 mm	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	81.1	°C	ASTM D648
Vicat Softening Temperature	96.1	°C	ASTM D1525 ⁵
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.54 mm	V-0		UL 94
3.18 mm	5VA		UL 94
Additional Information			
Water Absorption, ASTM D570: <0.3%			
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 85.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	180 - 210	°C	
Middle Temperature	195 - 220	°C	
Front Temperature	180 - 210	°C	
Nozzle Temperature	200 - 230	°C	
Processing (Melt) Temp	170 - 180	°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 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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