

Taitalac® 5000M

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac® 5000M is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of Taitalac® 5000M are:

Flame Rated

High Gloss

Impact Resistant

Rigid

Typical applications include:

Audio/Video

Household Applications

General Information			
Features	High Gloss		
	High Rigidity		
	Medium Impact Resistance		
Uses	Household Goods		
	Video Cassettes		
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	1.8	g/10 min	
220°C/10.0 kg	20	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)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18 mm	44.1	MPa	
Break, 23°C, 3.18 mm	37.3	MPa	
Tensile Elongation ² (Break, 23°C, 3.18 mm)	30	%	ASTM D638
Flexural Modulus ³ (23°C)	27000	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 23°C)	77.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	200	J/m	
23°C, 6.35 mm	180	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	85.0	°C	ASTM D648
Vicat Softening Temperature ⁵	103	°C	ASTM D1525 ⁶
RTI Elec (1.59 mm)	60.0	°C	UL 746
RTI Imp (0.0625 mm)	60.0	°C	UL 746
RTI Str (1.59 mm)	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
High Amp Arc Ignition (HAI) (0.0620 mm)	200		UL 746
High Voltage Arc Tracking Rate (HVTR) (0.0620 mm)	0.00	mm/min	UL 746
Hot-wire Ignition (HWI) (1.57 mm)	18	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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