

Taitalac® 3100

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac®3100 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 3100 are:

flame retardant/rated flame

Good toughness

Typical application areas include:

safety equipment

Automotive Industry

Consumer goods

General Information			
UL YellowCard	E50263-510453		
Features	Good toughness		
Uses	Safety helmet		
	Application in Automobile Field		
	Footwear		
Forms	Particle		
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	0.80	g/10 min	ASTM D1238
220°C/10.0 kg	8.0	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)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18mm	32.4	MPa	ASTM D638
Fracture, 23°C, 3.18mm	27.6	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.18 mm)	90	%	ASTM D638
Flexural Modulus ³ (23°C)	2000	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	490	J/m	ASTM D256
23°C, 6.35 mm	450	J/m	ASTM D256

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	102	°C	ASTM D1525 ⁵
Flammability	Nominal Value	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	200 - 230	°C	
Middle Temperature	210 - 240	°C	
Front Temperature	200 - 230	°C	
Nozzle Temperature	220 - 240	°C	
Processing (Melt) Temp	185 - 195	°C	
Mold Temperature	40.0 - 70.0	°C	
Injection Pressure	0.345 - 0.483	MPa	
Injection Rate	Moderate-Fast		
Screw Speed	30 - 100	rpm	
Injection instructions			
Injection Pressure: Moderately High to 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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Recommended distributors for this material

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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