

Taitalac® 3100M

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac® 3100M is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or North America for extrusion or injection molding. Important attributes of Taitalac® 3100M are:

- Fatigue Resistant
- Impact Resistant
- Rigid

Typical application of Taitalac® 3100M: Consumer Goods

General Information			
UL YellowCard	E50263-510453		
Features	Fatigue Resistant		
	High Rigidity		
	Ultra High Impact Resistance		
Uses	Footwear		
UL File Number	E50263		
Processing Method	Extrusion		
	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	0.60	g/10 min	
220°C/10.0 kg	6.0	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)	100		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18 mm	38.6	MPa	
Break, 23°C, 3.18 mm	31.7	MPa	
Tensile Elongation ² (Break, 23°C, 3.18 mm)	40	%	ASTM D638
Flexural Modulus ³ (23°C)	2070	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	360	J/m	
23°C, 6.35 mm	310	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	101	°C	ASTM D1525 ⁶
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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

