

Taitalac® 3000D

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac®3000D is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America or Asia Pacific region. The processing method is extrusion or vacuum molding.

Taitalac®The main features of 3000D are:

- flame retardant/rated flame
- Impact resistance
- chemical resistance

Typical application areas include:

- container
- Consumer goods

General Information	
UL YellowCard	E50263-241885
Features	Impact resistance, high
	Good chemical resistance
Uses	Tools/Parts Box
	Leather case
UL File Number	E50263
Forms	Particle
Processing Method	Extrusion
	Vacuum forming

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	1.0	g/10 min	ASTM D1238
220°C/10.0 kg	10	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	38.6	MPa	ASTM D638
Fracture, 23°C, 3.18mm	35.2	MPa	ASTM D638
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	440	J/m	ASTM D256
23°C, 6.35 mm	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	86.0	°C	ASTM D648
Vicat Softening Temperature	101	°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 Rate	Moderate-Fast		
Back Pressure	0.345 - 0.483	MPa	
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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