

Taitalac® 1003

Acrylonitrile Butadiene Styrene

Taita Chemical Company, Ltd.

Message:

Taitalac® 1003 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America or Asia Pacific region. The processing method is extrusion or injection molding.

Taitalac®The main features of the 1003 are:

flame retardant/rated flame

Good processability

Impact resistance

Typical application areas include:

House

Consumer goods

General Information	
UL YellowCard	E50263-241882
Features	Impact resistance, high
	Workability, good
	Good liquidity
Uses	Shell
	Footwear
UL File Number	E50263
Forms	Particle
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	3.5	g/10 min	ASTM D1238
220°C/10.0 kg	35	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)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18mm	36.5	MPa	ASTM D638
Fracture, 23°C, 3.18mm	32.4	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, 3.18 mm)	40	%	ASTM D638
Flexural Modulus ³ (23°C)	2480	MPa	ASTM D790

Flexural Strength ⁴ (Yield, 23°C)	66.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	230	J/m	ASTM D256
23°C, 6.35 mm	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	84.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°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	180 - 210	°C	
Middle Temperature	190 - 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 to Moderate			
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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