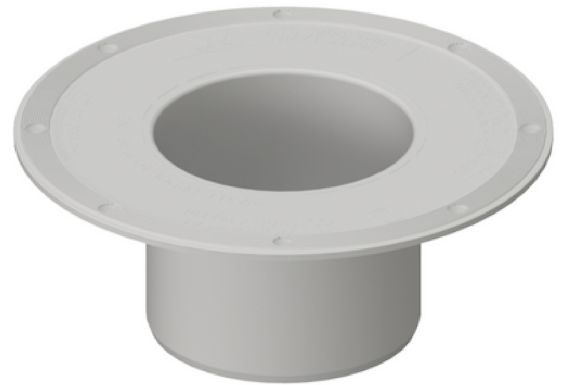




WONDERCAP

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**Wondercap Puddle Flanges - Made of ABS - Acrylonitrile-Butadiene-Styrene polymer
CAS No. :9003-56-9**

Please see attached Material Date Sheets for ABS



SAFETY DATA SHEET

DATE ISSUED: 2004.11.03

DATE REVISED: 2022.01.27

REV. No.: 010

1. COMPANY IDENTIFICATION

PRODUCT NAME : 1000、1000T、1000D、1003、1250、3000、3000D、3100、3100M、
3000P、5000、5000S、5002、6000、6000P、5000W、5000M、5000F、
3100R

SUPPLIER : TAITA CHEMICAL CO. LTD., / KAOHSIUNG BRANCH

COMPANY ADDRESS: No.5, Industrial 1st Rd., Lin-Yuan, Kaohsiung, Taiwan

TELEPHONE: 886-7-7040988 EXT 1355

FACSIMILE: 886-7-6414544 EXT 1355

2. HAZARD IDENTIFICATION :

GHS classification:

This product is not hazardous under United Nations GHS Parts 2,3 and 4.

Most Important Hazards	None
Adverse Human Health Effects	None
Environmental Effects	None
Physical and Chemical Hazards	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION : Acrylonitrile-Butadiene-Styrene copolymer

PRODUCT IDENTIFIER : TAITALAC ABS

Content : 100%

Formula : $(C_3H_3N)_x - (C_4H_6)_y - (C_8H_8)_z$

CAS No. : 9003-56-9

4. FIRST AID MEASURES

Eye Contact : In case of pellets or powder, flush with plenty of water for at least 15 minutes.

Seek medical advice if any dust particles still remain. In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes.

Seek medical advice if necessary.

Skin Contact : Wash skin thoroughly with soap and water. Seek medical attention if rash or burn



Ingestion : Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

Inhalation : In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Measures : At the time of fire, high heat as well as gases containing dense black smoke, carbon dioxide, carbon monoxide, nitrogen oxides, etc. are generated. At the time of fire-fighting, wear proper protective clothing and respirators.

Extinguishing Media : Water, water spray, and various kinds of fire-extinguishers may be used.

Special Fire-Fighting Procedure : Self contained breathing apparatus.

Fire and Explosion Hazards : None

6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions : In case it is spilled on the road or floor, there is danger of slipping and falling. Thus, collect the spilled pellets and dispose of them. If it is accidentally released, it may cause environmental contamination, so immediately collect all that have been released.

Methods for Cleaning up : Recovery if not contaminated or Disposal

7. HANDLING AND STORAGE

Handling : Gases and fumes in the drying and molding process may cause irritation to the skin and respiratory tract. Prevent contact with skin and eyes. Use industrial hygiene practices. Provide adequate ventilation. Secondary operation such as grinding, sanding or sawing may produce a dust explosion hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices.

Storage : Store in a dry place away from moisture, excessive heat and sources of ignition. Avoid direct sunlight. To avoid risk of collapse, do not stack unsupported boxes too high.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold Limit Value : Not determined

Ventilation : Necessary to exclude dust, fumes and gases.



PERSONAL PROTECTION :

Eye : Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines.

Skin : When handling pellets avoid prolonged or repeated contact with skin , there is no special need of gloves, But when handing molten resins, wear gloves having good Thermal insulation. Ordinary work clothing will do , but in case of handling molten resins, wear work clothing having long sleeves.

Respiratory : Wear masks for cleaning molding machines.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky off-white Solids

Melting Point : Softening above 100 °C

Vapor Pressure (mmHg) : None

Specific Gravity : 1.03-1.08

Solubility : Insoluble in water

Volatility: None

Flashing Point : 400°C

Auto Ignition Point : 466°C.

Upper Explosion Limit : None

Lower Explosion Limit : None

Stability : Stable under recommended conditions of storage and handling

Reactivity with Water : No

Flammability (solid, gas): Not applicable

Explosive properties: Not explosive

Oxidizing properties : Not oxidizing

10. STABILITY AND REACTIVITY

Reactivity: Non-reactive under normal handling and storage conditions

Chemical stability: Stable under normal handling and storage conditions

Possible hazardous reaction: Polymerization will not occur.

Conditions to avoid: Avoid temperatures above 300 °C. Exposure to elevated temperatures can cause product to decompose.

Incompatible materials: Strong oxidizing agents, Gasoline, aldehydes, ketone

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt



temperatures, polymer fragments can be released. Fumes can be irritating. Decomposition products can include and are not limited to: Combustible gases. In case of fire may be liberated: smoke, Styrene-Monomer, aldehydes and acids (organic), carbon monoxide and carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Irritation : Fumes or vapors generated from decomposing resin may be irritant to eyes.

Acute Toxicity (Includes 50% Lethal Dose) : Oral LD₅₀ (Rat) > 5g/kg (Assumed Value)

Sub-Acute Toxicity : No Information

Mutagenicity : Not determined.

12. ECOLOGICAL INFORMATION

To avoid being taken by ocean species or birds, disposal of the waste to the ocean and water sources is inhibited.

13. DISPOSAL INFORMATION

It shall be handled in accordance with the laws, rules, and ordinances related to the disposal of waste matters.

14. TRANSPORTATION INFORMATION :

TAITALAC

ADR/RID Not regulated

AND/ADNR Not regulated

IMDG Not regulated

IATA Not regulated

Consult TAITALAC's safety department for any further information

15. REGULATORY INFORMATION :

Not available.

16. OTHER INFORMATION :

Pre-Registration Number of REACH:

EC Number	Tonnage Band	Submission Number	Pre-registration Number	Deadline
202-851-5	100~1000	LV488022-13	05-2117246118-46-0000	5/31/2013
203-466-5	10~100	ZZ488326-77	05-2117247483-42-0000	11/30/2010
203-450-8	10~100	YB488397-17	05-2117247976-27-0000	11/30/2010
203-755-6	1~10	HW488480-05	05-2117248420-53-0000	5/31/2018



TAITALAC 1000
ABS Resin

Acrylonitrile Butadiene Styrene (ABS) Resin

Characteristics	Applications
<ul style="list-style-type: none"> • Injection • Medium high impact • Good flow for process • High gloss 	<ul style="list-style-type: none"> • Toy and furniture components • Office equipment • Kitchen appliances / House-ware • Battery / Shoes

Properties	Test	Test Condition	SI unit	
			Unit	s.p.
Rheological Properties				
Specific Gravity	ISO 1183	23°C	g/cm ³	1.03
Melt Volume Rate	ISO 1133	220°C, 10kg load	cm ³ /10min	16.0
Mechanical Properties				
Izod Impact Strength	ISO 180/1A	23°C, Notched	KJ/m ²	23
Charpy impact strength	ISO 179/1A	23°C, Notched	KJ/m ²	24
Tensile Strength at Yield	ISO 527	23°C, 50 mm/min	MPa	43
Tensile Strength at Break	ISO 527	23°C, 50 mm/min	MPa	34
Elongation at Break	ISO 527	23°C, 50 mm/min	%	30
Flexural Yield	ISO 178	23°C, 2.0 mm/min	MPa	67
Flexural Modulus	ISO 178	23°C, 2.0 mm/min	GPa	1.9
Thermal Properties				
Heat Distortion Temperature	ISO 75	unannealing 1.8MPa	°C	84
Vicat Softening Temperature	ISO 306	50°C/hr, 1 kg load	°C	96
Physical Properties				
Rockwell Hardness	ISO 2039-2	23°C, R-scale	R-scale	105
Mold Shrinkage	ISO 294-4	60×60×2mm S _{Flow}	%	≤ 0.4
Moisture Absorption Equilibrium	ISO 62	23°C/50% RH	wt %	≤ 0.3
Flammability				
	UL-94	1/16 inch	No E50263	HB
Electrical				
Relative Temperature Index	UL-746B	0.062 inch above	°C	60
Hot Wire Ignition	UL-746A	0.062 inch above	Secs	17
High Current Arc Ignition	UL-746A	0.062 inch above	Arcs	200
Arc Tracking Rate	UL-746A	0.062 inch above	in/min	0

Note : The data listed represent average values and are believed to be reliable. They are given for information; no guarantee of their accuracy is made.