

800 – CT03 Cable Ties, Nylon

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The following data sheet is applicable to the following products:



Product Code	Description (L x W)	Pack Size	Strength (N)
800-CT03-1229-X11	Cable Ties Nylon 250x4.5mm	100	200 N (44lbs)
800-CT03-1230-X11	Cable Ties Nylon 280x4.5mm	100	200 N (44lbs)
800-CT03-1232-X11	Cable Ties Nylon 140x3.5mm	100	160 N (36lbs)
800-CT03-1233-X11	Cable Ties Nylon 180x4.5mm	100	200 N (44lbs)
800-CT03-1234-X11	Cable Ties Nylon 200x4.5mm	100	200 N (44lbs)
800-CT03-1235-X11	Cable Ties Nylon 380x4.5mm	100	200 N (44lbs)
800-CT03-1236-X11	Cable Ties Nylon 360x7.5mm	100	500 N (112.5lbs)
800-CT03-1237-X11	Cable Ties Nylon 100x2.5mm	100	80 N (17lbs)
800-CT03-S113-X39	Cable Ties Nylon 145x3.4mm	100	80 N (18lbs)
800-CT03-S114-X39	Cable Ties Nylon 150x3.5mm	100	135 N (30lbs)
800-CT03-S116-X39	Cable Ties Nylon 185x4.6mm	100	80 N (18lbs)
800-CT03-S118-X39	Cable Ties Nylon 200x4.6mm	100	225 N (50lbs)
800-CT03-S125-X39	Cable Ties Nylon 380x4.7mm	100	80 N (18lbs)
800-CT03-S126-X39	Cable Ties Nylon 390x7.6mm	100	535 N (120lbs)
800-CT03-S139-X39	Cable Ties Nylon 92x2.4mm	100	80 N (18lbs)
800-CTO4-S126-X39	Cable Ties Nylon 390x4.6mm	100	50 N (18lbs)

All dimensions in mm

Detectable Cable Ties for The Food Industry

The metal detectable nylon cable tie is specifically designed for use in the food and pharmaceutical processing industries. A unique manufacturing process, involving the inclusion of a metallic pigment, enables even small 'cut-off' sections of the tie to be detected by standard equipment. Ideally suited for the installation of cabling in and around the manufacturing process. The cable ties do have a releasable function thus they can be reopened and reused.

Features and benefits

Total metal dispersion throughout the tie.

Can be reopened and reused.

Supports quality processes around the production of food stuffs.

Blue colour most common for easy visual

Greatly reduces risk of contamination

Magnetic detectable (detection level depending on specific application).

Information

Can support quality assurance in the production of food stuffs, for example HACCP.

Material Specification Overview

Material	Material shortcut	Operating temperature	Colour	Flammability	Material properties*	Material specifications
Aluminium alloy	AL	-40°C to + 180°C	Natural (NA)		.Corrosion resistant. .Antimagnetic.	RoHS
Chloroprene rubber	CR	-20°C to + 80°C	Black (BK)		.Weather resistant. .High yield strength.	RoHS
Ethylene tetrafluoroethylene (Tefzel®)	E/TFE	-80°C to +170°C	Blue (BU)	UL 94 V0	.Resistance to radioactivity. .UV resistant, not moisture sensitive. .Good chemical resistance to acids, bases, oxidizing agents.	RoHS
Polyacetal	POM	-40°C to +90°C (+110°C, 500h)	Natural (NA)	UL 94 HB	.Limited brittleness sensitivity. .Flexible at low temperatures. .Not moisture sensitive. .Robust on impact	RoHS
Polyamide 11	PA11	-40°C to +85°C (+105°C, 500h)	Black (BK)	UL 94 HB	.Bio-plastic, derived from vegetable oil. .Strong impact resistance at low temperature. .Very low moisture absorption. .Weather resistant. .Good chemical resistance.	HF RoHS
Polyamide 12	PA12	-40°C to +85°C (+105°C, 500h)	Black (BK)	UL 94 HB	.Good chemical resistance to acids, bases, oxidizing agents. .UV resistant.	HF RoHS

Polyamide 4.6	PA46	-40°C to +130°C (+150°C, 5000h); +195°C, 500h	Natural (NA), Grey (GY)	UL 94 V2	.Resistance to high temperatures. .Very moisture sensitive. .Low smoke sensitivity.	HF LFH RoHS
Polyamide 6	PA6	-40°C to +80°C	Black (BK)	UL 94 V2	.High yield strength	RoHS
Polyamide 6 (high impact modified)	PA6HIR	-40°C to +80°C	Black (BK)	UL 94 HB	.Limited brittleness sensitivity. .Higher flexibility at low temperature.	RoHS
Polymide 6.6	PA66	-40°C to +85°C (+105°C, 500h)	Black (BK) Natural (NA)	UL 94 V2	.High yield strength	HF RoHS
Polyamide 6.6 (glass-fibre reinforced)	PA66GF13	-40°C to +105°C (+105°C, 500h)	Black (BK)	UL 94 HB	.Good resistance to lubricants, fuels, salt water and solvents.	HF RoHS
Polyamide 6.6 (heat and UV-stabilised)	PA66HSUV	-40°C to +105°C (+105°C, 500h)	Black (BK)	UL 94 V2	.High yield strength. .Modified elevated maximum temperature. .UV resistancy	HF RoHS

Polyamide 6.6 (heat stabilised)	PA66HS	-40°C to +105°C (+105°C, 500h)	Black (BK) Natural (NA)	UL 94 V2	.High yield strength. .Modified elevated maximum temperature.	HF RoHS
Polyamide 6.6 (heat stabilised and UV- stabilised)	PA66HSHSU V	-40°C to +110°C	Black (BK)	UL 94 HB	.Limited brittleness sensitivity. .Higher flexibility at low temperature. .Modified elevated maximum temperature. .High yield strength, UV resistant.	RoHS
Polyamide 6.6 (high impact modified, high stabilised)	PA66HIRHS	-40°C to +105°C (+105°C, 500h)	Black (BK)	UL 94 HB	.Limited brittleness sensitivity. .Higher flexibility at low temperature. .Modified elevated maximum temperature.	RoHS
Polyamide 6.6 (high impact modified, scan black)	PA66HIR(S)	-40°C to +80°C (+105°C, 500h)	Black (BK)	UL 94 HB	.Limited brittleness sensitivity. .Higher flexibility at low temperature.	RoHS
Polyamide 6.6 (UV resistant)	PA66W	-40°C to +85°C (+105°C, 500h)	Black (BK)	UL 94 VS	.High yield strength. .UV resistant	HF RoHS
Polyamide 6.6 (with metal particles)	PA66MP	-40°C to +85°C (+105°C, 500h)	Blue (BU)	UL 94 HB	.High yield strength. .Metal and x-ray detectable	HF RoHS
Polyamide 6.6 (with metal particles)	PA66MP+	-40°C to +85°C	Blue (BU)	Not flame- retardant	.High yield strength. .Metal and x-ray detectable	HF RoHS
Polyamide 6.6 V0	PA66V0	-40°C to +85°C	White (WH)	UL 94 V0	.High yield strength. .Low smoke emission	HF LFH

						RoHS
Polyester	SP	-50°C to +150°C	Black (BK)		.UV resistant. .Good chemical resistance to most acids, bases and oils.	HF LFH RoHS
Poly-etheretherketone	PEEK	-5°C to +0°C	Beige (BGE)	UL 94 V0	.Resistance to radioactivity. .Not moisture sensitive. .Good chemical resistance to acids, bases, oxidizing agents.	HF LFH RoHS
Polyethylene	PE	-40°C to +50°C	Black (BK) Natural (NA)	UL 94 HB	.Low moisture absorption. .Good chemical resistance to most acids, bases, alcohol, oils.	HF RoHS

Polyolefin	PO	-40°C to +90°C	Black (BK)	UL 94 V0	.Low smoke emissions	HF LFH RoHS
Polypropylene	pp	-40°C to +115°C	Black (BK) Natural (NA)	UL 94 HB	.Floats in water. .Moderate yield strength .Good chemical resistance to acids, bases and solvents.	HF RoHS
Polypropylene ethylene propylene diene terpolymer (rubber free of nitrosamine)	PP, EPDM	-20°C to +95°C	Black (BK)	UL 94 HB	.Good resistance to high temperature. .Good chemical and abrasion resistance.	HF RoHS
Polypropylene (with metal particles)	PPMP	-40°C to +115°C	Blue (BU)	UL 94 HB	.Metal and x-ray detectable. .Heat resistant. .Moderate yield strength .Good chemical resistance.	RoHS
Polypropylene (with metal particles)	PPMP+	-40°C to +85°C	Blue (BU)	Not flame-retardant	.High yield strength. .Metal and x-ray detectable.	HF RoHS
Polyvinylchloride	PVC	-10°C to +70°C	Black (BK) Natural (NA)	UL 94 V0	.Low moisture absorption. .Good chemical resistance to acids,bases,salts,alcohol, oils.	RoHS
Stainless steel	SS304,SS316	-80°C to +538°C	Natural (NA)	Non burning	.Corrosion resistant. .Antimagnetic. .Weather resistant. .Chemical resistant.	HF LFH RoHS

					.SS316 also resistant against seawater, salt spray and anorganic acids.	
Thermoplastic Polyurethane	TPU	-40°C to +85°C	Black (BK)	UL 94 HB	.High elasticity. .Good chemical resistance to acids, bases and oxidizing agents.	HF RoHS

*These details are only guide values. They should not be regarded as a exhaustive material specification and are no substitute for suitability tests.

HF = Halogen Free

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances



= Minimum loop tensile strength for cable ties (newton)

Metal Detectable Nylon (PA 66) Products

Detectamet Limited manufactures cable management products made of metal detectable nylon (PA66) Compounds (the “products”). These products are intended for use in the proximity of food processing, handling , and packaging operations. In addition, these proeucts are used for cable management on food processing and packaing equipment, and inside electrical control panels found in the food processing and packaging operations.

Subject to the provisions of clause 3 below, Detectamet Ltd declares that these products mat be used as food contact according to:

Regulation (EC) No 1935/2004.

Detectamet Ltd follows good manufacturing principles (gmp) according to **Regulation (EC) No 2023/2006** when manufacturing these products.

Regulation (EU) No 10/2011 (as amended by Regulation(EU) No 1282/2011):

The monomers as well as the other starting substances, additives and polymer production aids used in the manufacture of these products are listed in annex I (union list) with the following specific restrictions:

- Hexamethylendiamine: SML – 2.4mg/kg
- 1,6- Hexamethylen-bis [3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionamid]: SML =45 MG/KG
- Iron: SML = 48MG/KG

The meanings of the used abbrviations are:

SML = Specific migration limit in food or in food stimulant

The Generic specific migration limit of 60 mg/kg according to Regulation (EU) No 10/2011, article 11(2) and the overall migration limit of 10 mg/dm² according to the article 12(1) have to be observed.

This material contains dual-use additives, which are not subject to a restriction.

The pigments used for colouration comply with requirements of the European Resolution **AP (89) 1** or the German Recommendation **IX of BfR (Federal Institute for Risk Assessment)**.

This statement of compliance applies to products supplied in original form as manufactured by Detectamet Limited i.e. without any subsequent modification. Since conditions of use/application of Products are outside Detectamet Ltds control, Detectamet Ltd gives no guarentees, warranties (express or implied) and assumes no libability whatsoever for any loss, damage or expense airising from or in connection with the use of this information.

The suitability of the products for the applcation concerned, included their effect on the smell and taste of the contects and the observance of the given limitations (for example overall migration, specific limits and other analytical requirements) must be checked in each case by the user.

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Helen Morrison
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