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DATASHEET

HXCT Continuous Tubing

HXCT continuous tubing is a thin walled, zero halogen, low smoke, low toxicity, radiation cross-linked polyolefin heat shrinkable marker sleeve. The marker sleeve is supplied on spools and is printed and cut/perforated to the desired length using the printer systems referenced.

Material

The sleeving shall be fabricated from irradiated, thermally stabilised and flame retarded modified polyolefin compound containing no halogens or cadmium in the formulation.

Dimensions

Part Description	Supplied ID mm (in)	Recovered ID mm (in)	Recovered wall nominal. mm (in)
HXCT-2.4	2.4 (0.094)	1.19 (0.047)	0.50 (0.02)
HXCT-3.2	3.2 (0.126)	1.6 (0.063)	0.50 (0.02)
HXCT-4.8	4.8 (0.189)	2.4 (0.094)	0.51 (0.02)
HXCT-6.4	6.4 (0.250)	3.2 (0.126)	0.65 (0.026)
HXCT-9.5	9.5 (0.375)	4.8 (0.189)	0.65 (0.026)
HXCT-12.7	12.7 (0.500)	6.4 (0.250)	0.65 (0.026)
HXCT-19.0	19.0 (0.750)	9.5 (0.375)	0.75 (0.030)
HXCT-25.4	25.4 (1.0)	12.7 (0.50)	0.90 (0.035)
HXCT-38.1	38.1 (1.5)	19.1 (0.75)	1.00 (0.039)

Print System

The recommended Printer Ribbon Systems for use with HXCT are shown in the latest version of document 411-121005 Identification Printer Product Ribbon Matrix

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PROPERTIES

Adherence of Marking

Print legible after 50 rubs

RW-2072 Clause 3.8.1
(In accordance with SAE-AS5942)

Fluid Resistance

IRM902
MIL-PRF-23699
Skydrol LD-4
MIL-H-83282
JP-8
Diesel Fuel
Propylene Glycol de-icing
fluid 50/50
Tap water
5% Sodium chloride solution
1% Teepol

24 hour total immersion at 24°± 3°C
Print legible after after 20 wipes

RW-2072 Clause 3.8.2
(in accordance with SAE AS 5942)

Isopropyl alcohol

Saturated cloth wipe

RW-2072 Clause 3.8.2
(in accordance with SAE AS 5942)

HCL 5% solution
NaOH 5% solution

1min. at 23°C, 10 wipes – C8¹ min.
1min. at 23°C, 10 wipes – C8¹ min.

RW-2072 Clause 3.8.2
(in accordance with SAE AS 5942)

IRM 902 oil

70hrs. at 50°C,
Print legible after 10 wipes

RW-2072 Clause 3.8.2
(in accordance with SAE AS 5942)

Thermal Properties

Heat Shock
240min at 175°C

Mandrel bend:
No dripping flowing or cracking
Print legible after 20 rubs

RW-2072 Clause 3.3.2
(in accordance with ASTM D2671)

Heat Ageing
168hrs at 135°C

Mandrel bend:
No dripping flowing or cracking
Print legible after 20 rubs
No cracking

RW-2072 Clause 3.3.1
(in accordance with ASTM D2671)

Low Temperature Bend
240min at -55°C

RW-2072 Clause 3.3.4
(in accordance with IEC 60684-2)

Electrical Properties

Dielectric Strength

15 MV/m minimum

RW-2072 Clause 3.4.1
(in accordance with ASTM D2671)

Volume Resistivity
After Damp Heat

10¹² Ω cm minimum

RW-2072 Clause 3.4.2
(in accordance with ASTM D2671)



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Flame Properties

Flammability	Self Extinguishing	RW-2072 Clause 3.7.1 (ASTM D2671 Procedure B)
Oxygen Index (OI)	34% minimum	RW-2072 Clause 3.7.2 EN 45545-2 (EN ISO 4589-2:1999,
Dripping Classification	Classification ST2	RW-2072 Clause 3.7.11 (DIN 5510-2)
Smoke Density	0.017 maximum	RW-2072 Clause 3.7.7 (BS 6853:1999 Annex D.8.3)
Smoke	20 maximum Smoke class F1	RW-2072 Clause 3.7.4 (ASTM E662)
LUL Toxic Fume	No Halogens, -P, -S, -N sources above trace levels	RW -2072 Clause 3.7.8

Other Properties

Copper Mirror Corrosion: 16 hours at 150°C	No corrosion of mirrors above 8%	RW-2072 Clause 3.5.1 (ASTM D2671)
Water Absorption: 24hrs at 23°C	1.0% maximum	RW-2072 Clause 3.5.2 (ASTM D570)
UV Resistance	Mandrel bend test Print legible after 20 rubs	RW-2072 Clause 3.6.1 (ASTM G154)

Product is compliant to EU RoHS Directive 2002/95/EC. This compliance information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change