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	1min. at 23°C, 10 wipes – C8[1] min.	RW-2072 Clause 3.8.2 (in accordance with SAE AS 5942)
NaOH 5% solution	1min. at 23°C, 10 wipes – C8[1] min.	
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	10^{12} 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