

## Test Report

No. LPCI/02614-2/11  
CTS Ref. CTS/11/0421/Cryovac

Date : 08/02/2011

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**CRYOVAC (M) SDN. BHD.**  
**LOT 115, GEBENG INDUSTRIAL ESTATE, 26080 KUANTAN,**  
**PAHANG DARUL MAKMUR, MALAYSIA**

**The following merchandise was (were) submitted and identified by the client as:**

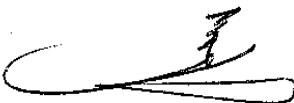
Sample Description : IMPACT/OPTI 200/OPTIMAX SHRINK FILM  
Sample Receiving Date : 31/01/2011  
Testing Period : 31/01/2011 to 08/02/2011

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Test Results : Please refer to next page.

Analyst : Lim Meng Hoe & Yee Sook Wai

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CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

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Test results by chemical method:

Test Item (s):	Unit	Method	Result	MDL
<b>Halogen</b>	---	---	---	---
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Fluorine content.	N.D.	50
Halogen-Chlorine (Cl)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Chlorine content.	N.D.	50
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Bromine content.	N.D.	50
Halogen-Iodine (I)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Iodine content.	N.D.	50

Test Part Description:

Sample Description : IMPACT/OPTI 200/OPTIMAX SHRINK FILM

- Note :
- (a) mg/kg = ppm
  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) --- = Not Conducted

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Test results by chemical method:


Test Item (s):	Unit	Method	Result	MDL
<b>Phthalates</b>	---	---	---	---
DBP (Di-butyl phthalate) (CAS No.: 000084-74-2)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DEHP (Di-(2-ethylhexyl phthalate) (CAS No.: 000117-81-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
BBP (Benzyl Butyl phthalate) (CAS NO.: 000085-68-7)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.01
DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.01
DIBP (Di-isobutyl phthalate) (CAS No.: 000084-69-5)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003

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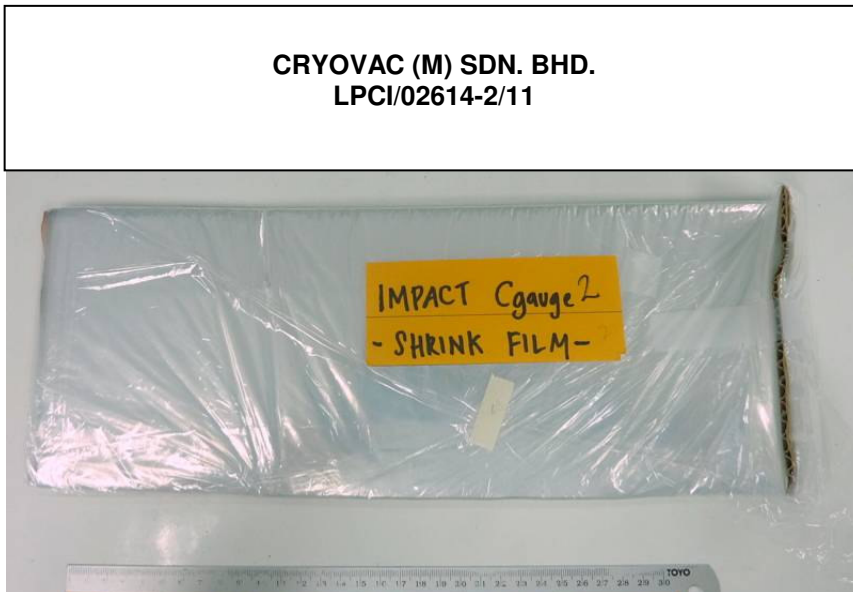
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### Test Part Description :

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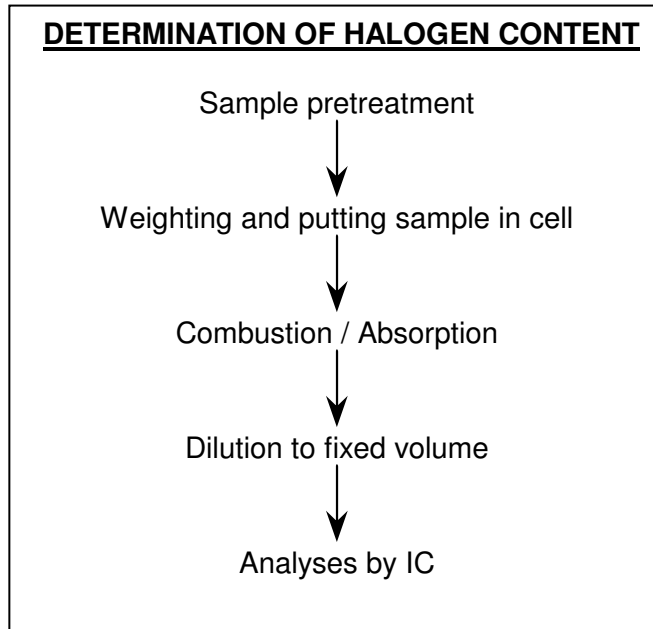


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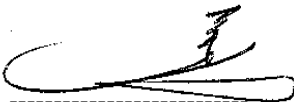
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**DETERMINATION OF HALOGEN CONTENT**



\*\*\*\* End of Report \*\*\*\*

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