



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية  
@ ASUNET



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأفلام قد أعدت دون أية تغيرات



## يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of  
15-25- c and relative humidity 20-40%

# بعض الوثائق الأصلية تالفة

# بالرسالة صفحات لم ترد بالاصل



2/10/10

**Effect of Irradiation on Some Mechanical and Physical  
Properties of Locally Produced Linear Low Density  
Polyethylene (LLDPE) and High Density Polyethylene (HDPE)**

**A Thesis**

**Submitted to the Institute of Graduate Studies and Research  
Alexandria University**

**In Partial Fulfillment of the Requirements for Master of Science Degree**

**In**

**Materials Science**

**By**

**Mohamed Ibrahim Mohamed Shadad**

**(B.Sc. in Chemistry and physics, 1998)**

**Faculty of Science  
Alexandria University**

**Department of Materials Science  
(2010)**



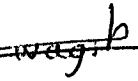
# **SUPERVISORS**

**Prof. Dr. Essam El-Rafey**  
**Prof., of Materials Science Department**  
**Institute of Graduate Studies and Research**  
**University of Alexandria**



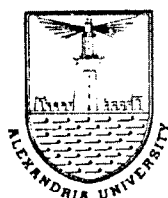
**Late Prof. Dr. M. E. KASSEM**  
**Prof., Solid State Physics, Physics Department,**  
**Faculty of Science**  
**University of Alexandria**

**Dr. Wagih Abd El-Alim Sayed Ahmed**  
**Associate Prof., Materials Science Department**  
**Institute of Graduate Studies and Research**  
**University of Alexandria**









**EFFECT OF IRRADIATION ON SOME MECHANICAL AND  
PHYSICAL PROPERTIES OF LOCALLY PRODUCED  
LINEAR LOW DENSITY (LLDP) AND HIGH DENSITY  
POLYETHYLENE (HDPE)**

**A Thesis Presented by:  
Mohamed Ibrahim Mohamed Shadad**

**For the Degree of Master  
In Materials Science  
Institute of Graduate Studies and Research  
Alexandria University  
2011**

**Examiners' Committee:**

Prof. Abas Abd El-Karim Yehya

Prof. Mohamed Essam El-Din El-Rafey

*Ossama Mohamed*  
Prof. ~~Osama~~ Mokhtar El-Shazly

Prof. Wagih Abd El-Alim Sayed Ahmed

**Approved**

*Yehya*

*El-Rafey*

*Ossama Elshazly*

*wagih*

20 Jan. 2011





**Effect of Irradiation on Some Mechanical and Physical  
Properties of Locally produced Linear Low Density  
Polyethylene (LLDPE) and High Density Polyethylene (HDPE)**

**A Thesis  
Presented by**

**Candidate : Mohamed Ibrahim Mohamed Shadad**

**For the Degree of  
Master of Science**

**In**

**Materials Science**

**Examiners' Committee:**

**Approved**

**Prof. Abas abd El-karem Yehia**



**Prof. Mahamad Essam El-din Elrafi**



**Prof. Assama Mokhtar Elshazily**

*Assama Mohamed Mokhtar Elshazily*  
*Assama Elshazily*

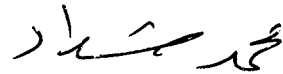
**DR. Wgih Abd El-Aliem Sayed**

*wagih*



## Declaration

I declare that no part of the work referred to in this thesis has been submitted in support of an application for another degree or qualification of this or any other university or other institution of learning.

A handwritten signature in black ink, appearing to be 'J. H. H.', is located to the right of the declaration text.



