

DAP Deutsches Akkreditierungssystem Prüfwesen GmbH

Annex to the Accreditation Certificate DAP-PL-4275.00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 2008-02-16 to 2013-02-15

Certificate holder:

**Al-Jubail
Petrochemical Company (Kemya)**

P. O. BOX 10084
Jubail Industrial City 31961
Saudi Arabia

for the

Quality Assurance Laboratory (QAL)

Tests in the fields:

**selected chemical and physical-chemical tests of
industrial samples (Linear Low Density Polyethylene –
LLDPE, Low Density Polyethylene - LDPE, High Density
Polyethylene – HDPE and their additives)**

abbreviations used:

see last page

KEMYA SOP 004
2007-07

Determination of Density by Means of the Density Gradient
Column Technique
*based on ASTM D-1505 (2003-11); Standard Test Method for Density of
Plastics by the Density-Gradient Technique*

KEMYA SOP 006
2007-07

Determination of Ash in Polyethylene
*based on ASTM D-5630 (2006-09); Standard Test Method for Ash Content in
Plastics*

KEMYA SOP 007
2007-07

Density of Polyethylene Resin by TECRAD DS-500
*based on ASTM D-4883 (2003-07); Standard Test Method for Density of
Polyethylene by the Ultrasound Technique*

KEMYA SOP 009
2007-07

Melt Flow Rate Testing Method
*based on ASTM D-1238 (2004-12); Standard Test Method for Melt Flow
Rates of Thermoplastics by Extrusion Plastometer*

KEMYA SOP 015
2007-07

Anti Oxidant Determination by High Performance Liquid
Chromatography

KEMYA SOP 016
2007-11

Determination of Antiblock, Zinc Stearate and Phosphite
Antioxidant in Polyethylene by X-Ray PW-2400 Spectrometry
*based on ASTM D-6247 (1998-04); Standard Test Method for Analysis of
Elemental Content in Polyolefins by X-Ray Fluorescence Spectrometry*

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| KEMYA SOP 018 2007-07 | Determination of Slip and Tinuvin by FTIR |
| KEMYA SOP 025 2007-07 | Melt Flow Rate Testing Method by GOTTFERT MI-ROBO <i>based on ASTM D-1238 (2004-12); Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer</i> |
| KEMYA SOP 037 2007-11 | Determination of Haze Value of Transparent Plastics by Haze Meter <i>based on ASTM-D1003 (2000-06); Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics</i> |
| KEMYA SOP 038 2007-11 | Polyethylene Blow Film Extrusion and Film Appearance Rating by COLLIN Extruder <i>based on EXXON D-3.14 (1999-06); EXXON Laboratory Manual Guidelines - Use of Lab Extruders for Film Blowing</i> |

in connection with:

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|---------------------------------|---|
| <i>ASTM-D1003 2000-06</i> | <i>Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics</i> |
| <i>ASTM D-1505 2003-11</i> | <i>Standard Test Method for Density of Plastics by the Density-Gradient Technique</i> |
| <i>ASTM D-1238 2004-12</i> | <i>Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer</i> |
| <i>ASTM D-4883 2003-07</i> | <i>Standard Test Method for Density of Polyethylene by the Ultrasound Technique</i> |
| <i>ASTM D-5630 2006-09</i> | <i>Standard Test Method for Ash Content in Plastics</i> |
| <i>ASTM D-6247 1998-04</i> | <i>Standard Test Method for Analysis of Elemental Content in Polyolefins by X-Ray Fluorescence Spectrometry</i> |
| <i>EXXON D-3.14 1999-06</i> | <i>EXXON Laboratory Manual Guidelines Use of Lab Extruders for Film Blowing</i> |

abbreviations used:

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| ASTM | American Society for Testing and Materials |
| KEMYA | Company Name |
| SOP | Standard Operation Procedure |