PAKRO KİMYA
Plastik Hammadde Çözüm Ortağınız

Pakro Kimya Dış Ticaret A.Ş.
İstoç Ticaret Merkezi Aktem Plaza
Kat:5 Daire:33 Bağcılar/İstanbul

0212 659 26 01-02
0212 659 26 03
www.pakrokimya.com.tr
Info@pakrokimya.com.tr

Technical Information

# DOW™ HDPE KT 10000 UE
## High Density Polyethylene Resin

## Overview

HDPE KT 10000 UE Polyethylene Resin is an UV stabilised resin with very narrow molecular weight distribution. It was developed to impart excellent stiffness, combined with good impact strength to injection moulded parts, at minimum warpage.

Note: HDPE KT 10000 UE Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

- Cases and boxes for industrial parts.
- Farm produce and beverage crates.
- Pails and buckets.

## Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

| Physical | Nominal Value | (English) | Nominal Value | (SI) | Test Method |
|---|---|---|---|---|---|
| Density | 0.964 | g/cm³ | 0.964 | g/cm³ | ASTM D792 |
| Melt Index | | | | | ISO 1133 |
| 190°C/2.16 kg | 8.0 | g/10 min | 8.0 | g/10 min | |
| 190°C/5.0 kg | 22 | g/10 min | 22 | g/10 min | |
| Spiral Flow [1,2] | 28.9 | in | 73.5 | cm | Dow Method |
| Molding Shrinkage - Flow | 0.021 | in/in | 2.1 | % | ASTM D955 |
| Environmental Stress-Cracking Resistance (ESCR) | | | | | ASTM D1693 |
| 100% Antarox CO-630, Compression Molded | 2.50 | hr | 2.50 | hr | |
| **Mechanical** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Tensile Strength | | | | | ASTM D638 |
| Yield, Compression Molded | 4210 | psi | 29.0 | MPa | |
| Break, Compression Molded | 4640 | psi | 32.0 | MPa | |
| Tensile Elongation | | | | | ASTM D638 |
| Break, Compression Molded | 800 | % | 800 | % | |
| Flexural Modulus - 2% Secant (Compression Molded) | 152000 | psi | 1050 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Tensile Impact Strength (Compression Molded) | 36.6 | ft·lb/in² | 77.0 | kJ/m² | ASTM D1822 |
| **Hardness** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Shore Hardness (Shore D, Compression Molded) | 66 | | 66 | | ISO 868 |
| **Thermal** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Vicat Softening Temperature | 268 | °F | 131 | °C | ISO 306/A |

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Melt Temperature: 482°F (250°C)

[2] 2 seconds injection





Form No. 400-00084197en
Rev: 2013-09-24

## Product Stewardship

The Dow Chemical Company and its subsidiaries ("Dow") has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our Product Stewardship program rests with each and every individual involved with Dow products ─ from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

## Medical Applications Policy

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

a. long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 72 continuous hours;
b. use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
c. use as a critical component in medical devices that support or sustain human life; or
d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. **DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.**

## Disclaimer

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Dow to change specifications and/or discontinue production; and (4) although Dow may from time to time provide samples of such products, Dow is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

NOTICE: This data is based on information Dow believes to be reliable, as demonstrated in controlled laboratory testing. They are offered in good faith, but without guarantee, as conditions and method of use of Dow products are beyond Dow's control. Dow recommends that the prospective user determine the suitability of these materials and suggestions before adopting them on a commercial scale.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability for the accuracy and completeness of such information.

## Additional Information


| | | | |
|---|---|---|---|
| **North America** | | **Europe/Middle East** | +800-3694-6367 |
| U.S. & Canada: | 1-800-441-4369 | | +31-11567-2626 |
| | 1-989-832-1426 | Italy: | +800-783-825 |
| Mexico: | +1-800-441-4369 | | |
| **Latin America** | | **South Africa** | +800-99-5078 |
| Argentina: | +54-11-4319-0100 | | |
| Brazil: | +55-11-5188-9000 | | |
| Colombia: | +57-1-219-6000 | **Asia Pacific** | +800-7776-7776 |
| Mexico: | +52-55-5201-4700 | | +603-7965-5392 |

www.dowplastics.com


This document is intended for use within Asia Pacific, Europe

Published: 2005-05-05







Form No. 400-00084197en
Rev: 2013-09-24