Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

# RIGIDEX® HD5740UA

## Product Technical Information

**RIGIDEX® HD5740UA** is a UV-stabilised high density polyethylene copolymer grade. It has a narrow molecular weight distribution and has been specially developed for the injection moulding of heavy duty articles for outdoor use.

## Benefits & Features

- High rigidity
- High impact resistance, especially at low temperatures
- Good processability
- Very good weathering resistance

## Applications

- Large dustbins and pails
- Pallet boxes
- Technical parts

| Properties | Conditions | Test Methods | Values | Units |
|---|---|---|---|---|
| **Rheological** | | | | |
| Melt Flow Rate | 190°C/2.16kg | ISO 1133-1 | 4.0 | g/10min |
| **Physical** | | | | |
| Density ISO 17855-1 | 23°C | ISO 1183-1 | 957 | kg/m³ |
| **Mechanical** | | | | |
| Flexural Modulus | 23°C | ISO 178 | 1300 | MPa |
| Tensile Strength at Yield | 23°C | ISO 527-1,-2 | 29 | MPa |
| Charpy Impact Strength, notched | 23°C | ISO 179-1/1eA | 4.5 | kJ/m² |
| Elongation at Break | 23°C, Type 2 Speed D | ISO 527 | >1000 | % |

**Data should not be used for specification work**

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# RIGIDEX® HD5740UA

## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.
It is advised to process the product within maximum one year after delivery.

### Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website www.ineos.com where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

### Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website www.ineos.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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