



# RIGIDEX<sup>®</sup> HD5502S

## Product Technical Information

**RIGIDEX<sup>®</sup> HD5502S** is a medium molecular weight copolymer grade supplied in pellet form which has an optimum balance of properties for use in a wide range of blow moulding and extrusion applications including bottles.

## Benefits & Features

- Easy processing
- Good rigidity
- Good environmental stress cracking resistance
- Good impact strength

## Applications

- Blow moulded containers up to 30 liters capacity for packaging chemicals, many household products, oils and foodstuff
- Sheet
- Extruded net

| Properties                                            | Conditions                     | Test Methods      | Values | Units             |
|-------------------------------------------------------|--------------------------------|-------------------|--------|-------------------|
| <b>Physical</b>                                       |                                |                   |        |                   |
| Density                                               | 23°C, conditioning ISO 17855-1 | ISO 1183-1        | 954    | kg/m <sup>3</sup> |
| Melt Flow Rate                                        | 190°C/2.16Kg                   | ISO 1133-1        | 0.2    | g/10min           |
| <b>Mechanical</b>                                     |                                |                   |        |                   |
| Flexural Modulus                                      | 23°C, 100 mm/min               | ISO 178           | 1050   | MPa               |
| Tensile Strength at Yield                             | 23°C, Type 2 Speed D           | ISO 527-1,-2      | 26     | MPa               |
| Elongation at break                                   | 23°C, Type 2 Speed D           | ISO 527-1,-2      | >300   | %                 |
| Charpy Impact Strength                                |                                | ISO 179-1         | 12     | kJ/m <sup>2</sup> |
| Environmental Stress Cracking Resistance (BTT)        | F50, 50°C, 100% concentration  | ASTM D 1693       | 50     | h                 |
| Bottle stress crack resistance                        |                                | INEOS Test Method | 6      | hours             |
| <b>Data should not be used for specification work</b> |                                |                   |        |                   |



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## 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](http://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](http://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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September, 2022

Published by  
**INEOS** Olefins & Polymers Europe