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

# RIGIDEX® P 451-HP40

## Product Technical Information

**RIGIDEX® P 451-HP40** has been designed specifically for the ultra-fast injection moulding of large food and paint containers (5-20ltr) where the demands for high productivity with high product performance are paramount. **RIGIDEX® P 451-HP40** is a very high melt flow, high impact and high stiffness block copolymer, that offers moulders an opportunity to significantly reduce cycle time, reduce wall thickness and increase product performance in use.

## Benefits & Features

- Fast cycling (high MFR and nucleated)
- High impact
- High stiffness
- Antistatic
- FDA compliant
- Very good dimensional and thermal stability

## Applications

- Food and paint containers
- Technical closures
- Automotive and appliance components
- Housewares

| Properties | Conditions | Test Methods | Values | Units |
|---|---|---|---|---|
| **Rheological** | | | | |
| Melt Flow Rate | 230°C/2.16Kg | ISO 1133-1 | 40 | g/10min |
| **Mechanical** | | | | |
| Flexural Modulus | 23°C | ISO 178 | 1350 | MPa |
| Izod Impact Strength, notched | 23°C | ISO 180/A | 8 | kJ/m2 |
| Izod Impact Strength, notched | -20°C | ISO 180/A | 4.5 | kJ/m2 |
| **Thermal** | | | | |
| Heat Deflection Temperature | 0.45 MPa | ISO 75-2 | 103 | °C |

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

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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 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.

### Exclusion of Liability

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