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

RIGIDEX® HD5231EA

Product Technical Information

RIGIDEX® HD5231EA is a high density polyethylene copolymer with a narrow molecular weight distribution, suitable for thin wall injection moulding and fast cycling applications.

Benefits & Features

- High flow
- Low warpage
- Slip agent free grade

Applications

- Thin-walled containers
- Houseware
- Caps & closures – non beverages
- Beverage over-caps

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	31	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-1	953	kg/m³
Mechanical				
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1150	MPa
Tensile strength at yield	23°C, 50mm/min	ISO 527-2	26	MPa
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	2.5	kJ/m²
Environmental Stress Cracking Resistance (ESCR)	23°C	ASTM 1693	6	h

Data should not be used for specification work

February, 2021

Published by

INEOS Olefins & Polymers Europe

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

RIGIDEX® HD5231EA

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

Although INEOS O&P Europe endeavours to ensure that all information and advice relating to our materials or other materials howsoever provided to you by INEOS O&P Europe is accurate and up to date, no representation or warranty, express or implied is made by INEOS O&P Europe as to its accuracy or completeness. All such information and advice is provided in good faith and INEOS O&P Europe is not, to the maximum extent permitted by law, liable for any action you may take as a result of relying on such information or advice or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

In addition data and numerical results howsoever provided to you by INEOS O&P Europe are given in good faith and are general in nature. Data and numerical results are not and shall not be regarded as specifications and as such INEOS O&P Europe is not, to the maximum extent permitted by law, liable for any action that you take as a result of relying on such data and results or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

It remains at all times your responsibility to ensure that INEOS O&P Europe materials are suitable for the particular purpose intended and INEOS O&P Europe shall not be responsible for any loss or damage caused by misuse of INEOS O&P Europe products. To the maximum extent permitted by law, INEOS O&P Europe accepts no liability whatsoever arising out of the application, adaptation or processing of the products described herein, the use of other materials in lieu of INEOS O&P Europe materials or the use of INEOS O&P Europe materials in conjunction with such other materials.

February, 2021

Published by

INEOS Olefins & Polymers Europe