

# 18R430

## Product Technical Information

Additive free LDPE homopolymer extrusion coating, injection moulding and compounding product

### Benefits & Features

**18R430** special polymer structure gives the following properties:

#### For extrusion coating:

- Well balanced Neck In and Draw Down performance
- Good adhesion performance and sealing properties
- Excellent substrate wettability

#### For injection moulding and compounding:

- Excellent flexibility
- Good transparency
- Absence of any kind of additive allowing tailor formulation of specific compounds and master-batches

### Applications

Extrusion coating and laminating grade designed for a medium to high coating line speed.

18R430 is also suitable for injection moulding of flexible products (caps and closures, food containers, soft tubes, technical parts) as well as for the production of compounds.

We recommend that you consult your INEOS technical representative for further advice on the use of **18R430**.

Properties	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	15	g/10min
<b>Physical</b>				
Density ISO 1872-1	23°C	ISO 1183-1	919	kg/m <sup>3</sup>
<b>Mechanical *</b>				
Shore Hardness D	1 second	ISO 868	40	-
Tensile strength at yield	23°C, 50mm/min	ISO 527-2	8	MPa
Tensile strength at break	23°C, 50mm/min	ISO 527-2	10	MPa
Tensile strain at Break	23°C, 50mm/min	ISO 527-2	400	%
<b>Thermal</b>				
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	107	°C
Vicat Softening Temperature	10N	ISO306/A50	78	°C
<b>Data should not be used for specification work</b>				

\* Measurements made on compression moulded plaques

April 2015

Published by  
**INEOS** Olefins & Polymers Europe



# 18R430

## Processing guidelines

### For Extrusion coating:

**18R430** can be processed on commercial extrusion coating equipments over the melt temperature range 280 - 325 °C.

### For Injection Moulding:

**18R430** can be injected over the usual melt temperature range 190 - 250°C depending on part thickness, with high injection speeds in a cold mould regulated with water cooled usually at 14°C between 10 to 20°C.

## 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.

### 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.

April 2015

Published by

**INEOS** Olefins & Polymers Europe