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

20N430

Product Technical Information

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

Benefits & Features

20N430 special polymer structure gives the following properties:

For extrusion coating:

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

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.

20N430 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 **20N430**.

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	8.5	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-1	920	kg/m³
Mechanical				
Shore Hardness D*	1 second	ISO 868	44	-
Tensile Modulus**	23°C, 1 mm/min	ISO 527-2	170	MPa
Tensile strength at yield*	23°C, 50mm/min	ISO 527-2	11	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	600	%
Thermal				
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	108	°C
Vicat Softening Temperature	10N	ISO306/A50	87	°C

Data should not be used for specification work

* Measurements made on compression moulded plaques – ** injection moulding plaques, ISO 1BA specimens

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Processing guidelines

For Extrusion coating:
20N430 can be processed on commercial extrusion coating equipments over the melt temperature range 280 - 325 °C.

For Injection Moulding:
20N430 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 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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