

500-NA01

Product Technical Information

Polypropylene – Impact Copolymer

500-NA01 is a low melt flow rate impact copolymer for demanding industrial applications. It offers an enhanced impact strength while keeping a high stiffness. This nucleated grade also allows a faster cooling and has a good long term stability.

Applications

- Corrugated pipes / conduit pipes
- Twin-wall sheets
- Fittings
- Sheets for thermforming
- Injection moulding

Benefits and Features

- Improved impact resistance (while keeping a high stiffness)
- Very low gel content
- Superior processability

Properties		Test Methods	Values	Units
Physical				
Melt Flow Rate	230°C/2.16kg	ISO 1133	1.5	g/10min
Mechanical				
Flexural Modulus	@23°C	ISO 178	1300	MPa
Tensile Strength	@Yield	ISO 527-1,-2	25	
Izod Impact Strength, notched	@23°C	ISO 180/1A	>50	kJ/m ²
	@-20°C	ISO 180/1A	10	kJ/m ²
Charpy Impact Strength, notched	@23°C	ISO 179/1eA	>50	kJ/m ²
	@-20°C	ISO 179/1eA	10	kJ/m ²

500-NA01

Thermal

Melting Point		ISO 11357-3	166	°C
Vicat Softening Temperature	@10 N	ISO 306/A	154	°C
HDT	@0.45 MPa	ISO 75/B	95	°C
Oxidation Induction Time (OIT)	@ 200°C	EN 728	> 8	min

- Data should not be used for specification work

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 require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@ineos.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

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 Material Safety Data Sheet (MSDS) that may be obtained from the website www.ineospolyolefins.com. Before using any material, a customer is advised to consult the MSDS 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.