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

103-CA03S

Provisional Product Technical Information

Polypropylene - Homopolymer

103-CA03S is a fully formulated grade intended for sheet extrusion and thermoforming applications requiring improved transparency and higher stiffness than conventional polypropylene. It is nucleated and clarified and contains a low level of antistatic agent. It offers a good balance between easy flow and mechanical properties and features very good optical properties, easy de-nesting and good thermal stability of end products..

Benefits & Features

- Very good optical properties
- High stiffness of end products
- Easy de-nesting
- Good thermal stability
- Easy processing in both forming and cutting

Applications

- Transparent trays for biscuits, fruit and vegetables
- Containers for various food products

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	230°C/2.16kg	ISO 1133-1	3	g/10min
Mechanical				
Flexural Modulus	23°C	ISO 178	1900	MPa
Tensile Strength at Yield	23°C	ISO 527-1,-2	39	MPa
Izod Impact Strength, notched	23°C	ISO 180/A	3	kJ/m²
Optical				
Haze	1mm Thickness	ASTM D 1003	18	%
Thermal				
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	165	°C
Crystallization Temperature	DSC	INEOS Test Method	132	°C
Heat Deflection Temperature	0.45 MPa	ISO 75-2	90	°C
Vicat Softening Temperature	10N	ISO306/A50	156	°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.

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