

243-NA02

Product Technical Information

Polypropylene 243-NA02 is a high clarity, high impact resistance random copolymer especially designed for:

- blow molding applications (mono and multi-layers) for food and non-food packaging of sauces, detergents, soaps and cosmetics,
- manufacturing of lamination films, protection films, label films, ... with outstanding optical properties and easy heat weldability in the blown process,
- sheets extrusion.

Characteristics

Properties	Test Methods	Values	Units
Rheological			
Melt Flow Rate 230°C/2.16Kg	ISO 1133	1.8	g/10 min
Mechanical			
Elongation at Yield	ISO 527-2	<15	%
Flexural modulus	ISO 178	900	MPa
Izod Impact Strength (notched)	ISO 180		kJ/m ²
At 23°C		22	
At 0°C		3.6	
Hardness Rockwell - R-scale	ISO 2039-2	82	
Thermal			
Vicat Softening Point	ISO 306		
50N-50°C per hour		67	°C
10N-50°C per hour		130	°C
Other physical properties			
Density	ISO 1183	0.902	g/cm ³
Bulk Density	ISO 60	0.525	g/cm ³
Data should not be used for specification work			

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Additional Properties: typical film properties on 40µm thick blown film

Properties	Test Methods	Values	Units
Optical			
Gloss	ASTM D2457	79	
Haze	ISO 14782	2.1	%
Mechanical*			
Tensile Strength at Yield MD *	ISO 527-3	35	MPa
Tensile Strength at Break MD *	ISO 527-3	70	MPa
Tensile Elongation at Break MD *	ISO 527-3	500	%
Dart Impact	ISO 7765-1	35	g
Elmendorf MD / TD *	ISO 6383-2	3 / 20	N/mm
Data should not be used for specification work			

* MD: Machine Direction

TD: Transverse Direction

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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