



# 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
<b>Rheological</b>			
Melt Flow Rate 230°C/2.16Kg	ISO 1133	1.8	g/10 min
<b>Mechanical</b>			
Elongation at Yield	ISO 527-2	<15	%
Flexural modulus	ISO 178	900	MPa
Izod Impact Strength (notched)	ISO 180		kJ/m <sup>2</sup>
At 23°C		22	
At 0°C		3.6	
Hardness Rockwell - R-scale	ISO 2039-2	82	
<b>Thermal</b>			
Vicat Softening Point	ISO 306		
50N-50°C per hour		67	°C
10N-50°C per hour		130	°C
<b>Other physical properties</b>			
Density	ISO 1183	0.902	g/cm <sup>3</sup>
Bulk Density	ISO 60	0.525	g/cm <sup>3</sup>

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
<b>Optical</b>			
Gloss	ASTM D2457	79	
Haze	ISO 14782	2.1	%
<b>Mechanical*</b>			
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
<b>Data should not be used for specification work</b>			

\* 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.