

# 242-NA02

## Product Technical Information

Polypropylene Random Copolymer

### Benefits

**242-NA02** is a highly clarified random copolymer for extrusion blow moulding, sheet extrusion, clear thermoformed packaging and high clarity blown films. Its formulation allows use for multilayer as well as monolayer structures.

It is also suitable for injection stretch blow moulding (ISBM).

### Features

- Excellent processability: excellent melt strength and low plate out
- Excellent impact resistance down to fridge temperature (4°C)
- Excellent optical properties: excellent transparency, contact clarity and gloss and excellent surface finish

### Applications

- Extrusion blow moulded mono or multi layer bottles for food (sauces, etc...) and non-food (detergents, household chemicals, cosmetics, etc...)
- Mono or multi layer thermoformed clear packaging
- Transparent sheet
- Mono or multi layer blown film

| Properties                    | Conditions    | Test Methods      | Values | Units             |
|-------------------------------|---------------|-------------------|--------|-------------------|
| <b>Physical</b>               |               |                   |        |                   |
| Melt Flow Rate                | 230°C/2.16kg  | ISO 1133-1        | 1.8    | g/10min           |
| <b>Mechanical*</b>            |               |                   |        |                   |
| Flexural Modulus              | 23°C          | ISO 178           | 900    | MPa               |
| Tensile Strength at Yield     | 23°C          | ISO 527-1,-2      | 24     | MPa               |
| Izod Impact Strength, notched | 23°C          | ISO 180/A         | 25     | kJ/m <sup>2</sup> |
| Izod Impact Strength, notched | 0°C           | ISO 180/A         | 5      | kJ/m <sup>2</sup> |
| <b>Optical</b>                |               |                   |        |                   |
| Haze                          | 1mm Thickness | ASTM D 1003       | 15     | %                 |
| Haze                          | 2mm Thickness | ASTM D 1003       | 30     | %                 |
| <b>Thermal</b>                |               |                   |        |                   |
| Crystallisation Temperature   | DSC           | INEOS Test Method | 115    | °C                |
| Heat Deflection Temperature   | 0.45 MPa      | ISO 75-2          | 70     | °C                |
| Vicat Softening Temperature   | 10N           | ISO306/A50        | 120    | °C                |

**Data should not be used for specification work**

\* Values determined on injection moulded specimens acc. to ISO 1873-2, based on 7 days conditioning time

### 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.