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
Physical				
Melt Flow Rate	230°C/2.16kg	ISO 1133-1	1.8	g/10min
Mechanical*				
Flexural Modulus	23°C	ISO 178	900	MPa
Tensile Modulus	23°C	ISO 527-2	950	MPa
Tensile Strength at Yield	23°C	ISO 527-1,-2	25	MPa
Izod Impact Strength, notched	23°C	ISO 180/A	25	kJ/m²
Izod Impact Strength, notched	0°C	ISO 180/A	5	kJ/m²
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	20	kJ/m²
Optical				
Haze	1mm Thickness	ASTM D 1003	15	%
Haze	2mm Thickness	ASTM D 1003	30	%
Thermal				
Melting Point	DSC	INEOS Test Method	145	°C
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

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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.