



Eltex[®] P CAP912

Product Technical Information

Polypropylene Random Copolymer

Benefits & Features

Eltex[®] P CAP912 is a random copolymer polypropylene specially developed for caps and closures applications in direct contact with beverages. Eltex[®] P CAP912 has excellent organoleptic properties – taste & odour – which are guaranteed and is compliant with volatile organic compound requirements following EPA524.2; this provides ultra-clean packaging capability.

Eltex[®] P CAP912 is a medium ethylene content random copolymer with good balance of stiffness, impact and processing. It offers for the injection moulding of caps and closures high transparency, surface aspect quality and hinge resistance.

- Good transparency
- Good flow
- Good mould release
- Good hinge properties
- Excellent and quality controlled organoleptic properties. In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.

Applications

Caps and closures for the packaging of still beverages: water, juices, functionalised beverages, ...

| Properties | Conditions | Test Methods | Values | Units |
|-------------------------------|---------------|-------------------|--------|-------------------|
| Physical | | | | |
| Melt Flow Rate | 230°C/2.16Kg | ISO 1133-1 | 13 | g/10min |
| Mechanical* | | | | |
| Flexural Modulus | 23°C | ISO 178 | 1100 | MPa |
| Tensile Strength at Yield | 23°C | ISO 527-1,-2 | 28 | MPa |
| Izod Impact Strength, notched | 23°C | ISO 180/A | 6.0 | KJ/m ² |
| Izod Impact Strength, notched | 0°C | ISO 180/A | 3.3 | KJ/m ² |
| Optical | | | | |
| Haze | 1mm Thickness | ASTM D 1003 | 15 | % |
| Haze | 2mm Thickness | ASTM D 1003 | 30 | % |
| Thermal | | | | |
| Crystallisation Temperature | DSC | INEOS Test Method | 119 | °C |
| Heat Deflection Temperature | 0.45 MPa | ISO 75-2 | 90 | °C |
| Vicat Softening Temperature | 10N | ISO306/A50 | 130 | °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.