

Artenius UNIQUE F10

Polyethylene Terephthalate

Artenius

Message:

Artenius UNIQUE F10 combines both post-consumer recycled PET and virgin PET resin in every single pellet. The virgin resin base is our Artenius FLOW, yet made using 10% clean recycled PET material as feedstock. It makes it possible to replace conventional non-renewable petrochemical raw materials, saving natural resources and reducing environmental impact.

Artenius UNIQUE F10 is suitable for processing as stretch blow moulding in one and particularly two stage processes. Formulation has been specially developed for the packaging of highly carbonated soft drinks due to its excellent mechanical properties.

Artenius UNIQUE F10 is produced using a proprietary chemical recycling process. The clean recycled PET is de-polymerized and mixed together with standard virgin PET raw materials, integrating both types of components into the repolymerization process. Decontamination challenge tests prove that our production process results in a resin as pure as 100% virgin resin, even under the strictest conditions. For this reason, Artenius UNIQUE F10 can safely be used for all direct food contact applications.

| General Information | | | |
|--------------------------------------|-------------------------|-------------------|-------------|
| Recycled Content | Yes,10% | | |
| Features | Food Contact Acceptable | | |
| Uses | Bottles | | |
| | Food Packaging | | |
| Agency Ratings | EU 94/62/EC | | |
| | EU No 10/2011 | | |
| Forms | Pellets | | |
| Processing Method | Stretch Blow Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity ¹ | > 1.39 | g/cm ³ | |
| Apparent Density | 0.84 | g/cm ³ | |
| Viscosity Number (Reduced Viscosity) | 82.0 to 86.0 | ml/g | ISO 1628 |
| Acetaldehyde | < 1.0 | ppm | ASTM F2013 |
| Color b | < 0.00 | | ASTM D6290 |
| Color L | > 78.0 | | ASTM D6290 |
| Crystallinity | > 48 | % | |
| Moisture | < 0.20 | % | |
| Weight - of 20 Chips | 320.0 | mg | |
| Blow Molding Drying Temperature | 165 to 175 | °C | |
| Blow Molding Drying Time | 5.0 to 6.0 | hr | |
| Blow Molding Temperature | 270 to 290 | °C | |
| Thermal | Nominal Value | Unit | |
| Melting Temperature | 240 to 250 | °C | |
| NOTE | | | |
| 1. | Crystalline | | |

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Recommended distributors for this material

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