

# Artenius UNIQUE F50

Polyethylene Terephthalate

Artenius

## Message:

Artenius UNIQUE F50 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 50% 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 F50 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 F50 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 F50 can safely be used for all direct food contact applications.

General Information			
Recycled Content	Yes,50%		
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 <sup>1</sup>	> 1.39	g/cm <sup>3</sup>	
Apparent Density	0.84	g/cm <sup>3</sup>	
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	> 72.0		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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