Artenius UNIQUE G10

Polyethylene Terephthalate

Artenius

Message:

Artenius UNIQUE G10 combines both post-consumer recycled PET and virgin PET resin in every single pellet. The virgin resin base is our Artenius GLOBAL, yet made using 10% clean recycled PET material as feedstock. It make possible to replace conventional non-renewable petrochemical raw materials, saving natural resources and reducing environmental impact.

Artenius UNIQUE G10 is suitable for processing as stretch blow moulding in one and particularly two stage processes, extrusion and film applications. Formulation has been specially developed for the packaging of still or carbonated water, soft drinks, edible oil, food packaging and spirit drinks. Artenius UNIQUE G10 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 G10 can safely be used for all direct food contact applications.

Recycled Content Yes 10% Features Food Contact Acceptable Uses Bottles Film Food Packaging Agency Ratings EU 94/62/EC EU No 10/2011 Forms Pellets Processing Method Extrusion Film Extrusion Stretch Blow Molding Physical Nominal Value Unit Specific Gravity ¹ > 1.39 g/cm ³ Apparent Density 0.84 g/cm ³ Viscosity Number (Reduced Viscosity) 80.0 to 84.0 ml/g ISO 1628 Acetaldehyde < 1.0 ppm ASTM F2013 Color b < 0.00 - ASTM D6290 Color L > 78.0 - ASTM D6290 Color L > 78.0 - ASTM D6290 Color L > 78.0 - ASTM D6290 City Stellinity > 48 % - Moisture < 0.20 % - Moisture < 0.20 % - Meting Temperature 240.0 250 °C - Dying Temperature 165 to 175 °C -	General Information			
UsesBottlesFilmFood PackagingAgency RatingsEU 94/62/EC EU No 10/2011FormsPelletsProcessing MethodPelletsProcessing MethodExtrusion Stretch Blow MoldingPhysicalNominal ValueVincosity 10.84Aparent Density0.84Aparent Density80.0 to 84.0Multion CorrectASTM F2013Color L< 1.0	Recycled Content	Yes,10%		
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Specific Gravity 1> 1.39g/cm3Apparent Density0.84g/cm3Viscosity Number (Reduced Viscosity)80.0 to 84.0m/gISO 1628Acetaldehyde< 1.0				
Apparent Density0.84g/cm³Viscosity Number (Reduced Viscosity)80.0 to 84.0ml/gISO 1628Acetaldehyde<1.0	Physical	Nominal Value	Unit	Test Method
Viscosity Number (Reduced Viscosity)80.0 to 84.0ml/gISO 1628Acetaldehyde< 1.0	Specific Gravity ¹	> 1.39	g/cm³	
Acetaldehyde< 1.0ppmASTM F2013Color b< 0.00	Apparent Density	0.84	g/cm³	
Color b< 0.00ASTM D6290Color L> 78.0ASTM D6290Crystallinity> 48%Moisture< 0.20	Viscosity Number (Reduced Viscosity)	80.0 to 84.0	ml/g	ISO 1628
Color L> 78.0ASTM D6290Crystallinity> 48%Moisture< 0.20	Acetaldehyde	< 1.0	ppm	ASTM F2013
Crystallinity> 48%Moisture< 0.20	Color b	< 0.00		ASTM D6290
Moisture< 0.20%Weight - of 20 Chips320.0mgThermalNominal ValueUnitMelting Temperature240 to 250°CExtrusionNominal ValueUnit	Color L	> 78.0		ASTM D6290
Weight - of 20 Chips320.0mgThermalNominal ValueUnitMelting Temperature240 to 250°CExtrusionNominal ValueUnit	Crystallinity	> 48	%	
ThermalNominal ValueUnitMelting Temperature240 to 250°CExtrusionNominal ValueUnit	Moisture	< 0.20	%	
Melting Temperature 240 to 250 °C Extrusion Nominal Value Unit	Weight - of 20 Chips	320.0	mg	
Extrusion Nominal Value Unit	Thermal	Nominal Value	Unit	
	Melting Temperature	240 to 250	°C	
Drying Temperature 165 to 175 °C	Extrusion	Nominal Value	Unit	
	Drying Temperature	165 to 175	°C	

Drying Time	5.0 to 6.0	hr	
Melt Temperature	270 to 290	°C	
NOTE			
1.	Crystalline		

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