Artenius DESIGN+

Polyethylene Terephthalate

Artenius

Message:

Artenius DESIGN+ is a copolymer of PET (Polyethylene-Terephthalate), delivered in resin pellets. This resin has been specially designed for complex thermoforming with tailored characteristics of high IV/high melt strength and a very slow rate between crystallization/high clarity and light transmission in very thick wall sections. It is suitable for thick sheet extrusion up to approximately 9 mm in thickness and sealing with high light transmission, excellent brightness and a neutral colour tone.

Food Contact Acceptable Good Mett Strength High Clarity High Light Transmission High ViscosityHigh Clarity High Light Transmission High ViscosityUsesSheet-Agency RatingsEU 94/62/EC EU No 10/2011-FormsPellets-Processing MethodSheet Extrusion Thermoforming-PhysicalNominal ValueUnitTest MethodSpecific Gravity 10.84g/cm³Apparent Density0.84 00 88.0m/gViscoty Number (Reduced Viscosity)84.00 88.0m/gActaidehyde< 1.0ppmColor L< 85.0MigColor L< 85.0MigColor L< 20.0%Color L< 20.0%Meting Temperature< 20.0migMeting Temperature20.0 24.0"CKentandehyde< 20.0"CMeting Temperature20.0 24.0"CDying Temperature155 0165.0"CDying Timperature50.00ntLintonNimal ValueUnitMeting Temperature155 0165.0"CDying Timperature50.00ntStote So Moninal ValueHitHeting Temperature155 0165.0"CDying Timperature150 016.0NitDying Timperature150 016.0NitDying Timperature150 016.0NitDying Timperature150 016.0NitDying Timperature150 016.0NitDying Timperature </th <th>General Information</th> <th></th> <th></th> <th></th>	General Information			
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Agency Ratings EU 94/62/EC EU No 10/2011 Forms Pellets Processing Method Sheet Extrusion Thremoforming Init Physical Nominal Value Unit Apparent Density 0.44 0.000 g/cm ³ Yiscosity Number (Reduced Viscosity) 84.0 to 88.0 m//g 0.01 Acetaldehyde <1.0				
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Specific Gravity 1 > 1.39 g/cm³ Apparent Density 0.84 g/cm³ Viscosity Number (Reduced Viscosity) 84.0 to 88.0 ml/g ISO 1628 Acetaldehyde < 1.0				
Apparent Density0.849/cm³Viscosity Number (Reduced Viscosity)84.0 to 88.0ml/gISO 1628Acetaldehyde< 1.0	Physical	Nominal Value	Unit	Test Method
Viscosity Number (Reduced Viscosity)84.0 to 88.0ml/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> 85.0ASTM D6290Crystallinity> 48%Moisture< 0.20	Viscosity Number (Reduced Viscosity)	84.0 to 88.0	ml/g	ISO 1628
Color L> 85.0ASTM 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 Temperature230 to 240°CExtrusionNominal ValueUnitDrying Temperature155 to 165°CDrying Time5.0 to 6.0hr	Color L	> 85.0		ASTM D6290
Weight - of 20 Chips320.0mgThermalNominal ValueUnitMelting Temperature230 to 240°CExtrusionNominal ValueUnitDrying Temperature155 to 165°CDrying Time5.0 to 6.0hr	Crystallinity	> 48	%	
ThermalNominal ValueUnitMelting Temperature230 to 240°CExtrusionNominal ValueUnitDrying Temperature155 to 165°CDrying Time5.0 to 6.0hr	Moisture	< 0.20	%	
Melting Temperature230 to 240°CExtrusionNominal ValueUnitDrying Temperature155 to 165°CDrying Time5.0 to 6.0hr	Weight - of 20 Chips	320.0	mg	
ExtrusionNominal ValueUnitDrying Temperature155 to 165°CDrying Time5.0 to 6.0hr	Thermal	Nominal Value	Unit	
Drying Temperature155 to 165°CDrying Time5.0 to 6.0hr	Melting Temperature	230 to 240	°C	
Drying Time 5.0 to 6.0 hr	Extrusion	Nominal Value	Unit	
	Drying Temperature	155 to 165	°C	
Melt Temperature 260 to 280 °C	Drying Time	5.0 to 6.0	hr	
	Melt Temperature	260 to 280	°C	

NOTE

1.

Crystalline

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