

Artenius DESIGN

Polyethylene Terephthalate

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Message:

Artenius DESIGN is a copolymer of PET (Polyethylene-Terephthalate), delivered in resin pellets. This resin has been specially designed for thick wall applications. This grade presents a higher IV and outstanding mechanical properties. Suitable for thick sheet extrusion up to a thickness of approximately 5 mm, sealing films and refillable bottles up to 5 gallons. It is particularly recommended for use in thick wall preforms, which need slow crystallization to achieve high light transmission, excellent brightness for thick sheets and a neutral colour tone.

General Information	
Features	Copolymer
	Food Contact Acceptable
	High Viscosity
Uses	Bottles
	Film
	Sheet
	Thick-walled Parts
Agency Ratings	EU 94/62/EC
	EU No 10/2011
Forms	Pellets
Processing Method	Film Extrusion
	Sheet Extrusion

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)	84.0 to 88.0	ml/g	ISO 1628
Acetaldehyde	< 1.0	ppm	ASTM F2013
Color b	< 0.00		ASTM D6290
Color L	> 85.0		ASTM D6290
Crystallinity	> 48	%	
Moisture	< 0.20	%	
Weight - of 20 Chips	320.0	mg	
Thermal	Nominal Value	Unit	
Melting Temperature	235 to 245	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	165 to 175	°C	
Drying Time	5.0 to 6.0	hr	

Melt Temperature	265 to 280	°C
NOTE		
1.	Crystalline	

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Recommended distributors for this material

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