

Eastman BD445 PET (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Voridian Polymer BD445 is primarily targeted for the soft drink and water markets, it is also suitable for use in other beverage containers as well as food and on-food-related applications. This polymer was formulated to provide improved efficiencies in preform and bottle production, a wide processing window, and very low acetaldehyde levels. This product is produced in Zarate, Argentina and will be supplied to customers in the Mercosur region. Applications/Uses Bottles Food packaging Packaging Carbonated soft drink containers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-BD445-PET-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.810 g/cc	0.0293 lb/in ³	Poured; ASTM D1895
	0.871 g/cc	0.0315 lb/in ³	Vibrated; ASTM D1895
Density	1.40 g/cc	0.0506 lb/in ³	Crystalline Density; ASTM D1505
Melt Density	1.10 g/cc	0.0397 lb/in ³	ASTM D1238
	@Temperature 285 °C	@Temperature 545 °F	
Particle Size	2500 µm	2500 µm	Pellet Size
Viscosity Measurement	0.80 - 0.84	0.80 - 0.84	Intrinsic; EMN-A-AC-G-V-1

Thermal Properties	Metric	English	Comments
Heat of Fusion	58.0 J/g	25.0 BTU/lb	ASTM E793
Specific Heat Capacity	1.20 J/g-°C	0.287 BTU/lb-°F	ASTM E1269
	1.50 J/g-°C	0.359 BTU/lb-°F	ASTM E1269
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.70 J/g-°C	0.406 BTU/lb-°F	ASTM E1269
	@Temperature 100 °C	@Temperature 212 °F	
1.90 J/g-°C	0.454 BTU/lb-°F	ASTM E1269	
	@Temperature 200 °C	@Temperature 392 °F	
	2.10 J/g-°C	0.502 BTU/lb-°F	ASTM E1269
	@Temperature 280 °C	@Temperature 536 °F	
Melting Point	241 °C	466 °F	Crystalline Peak Melting Point; ASTM D3418

Descriptive Properties	Value	Comments
Acetaldehyde	<1ppm	TEPO-A-AN-G-GC-67
Color, CIE a*	-3.3 to -0.3	VGAS-A-AN-G-RS-001
Color, CIE b*	-3.1 to 0.9	VGAS-A-AN-G-RS-001
Color, CIE L*	74 min	VGAS-A-AN-G-RS-001
Fines, wt%, max	0.05	VGAS-A-AN-G-GA-1
Pellet Shape	Cubical	

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