

Eastman 9921P PET Injection Molded (discontinued **)

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

Material Notes:

Voridian PET 9921P is produced at Voridian's manufacturing sites in Rotterdam and Zarate, it is PTA/CHDM based, and it is sold to customers in the Europe, Middle East and Africa, Argentina, Bolivia, Brazil, Chile, Colombia, Mexico, Paraguay, Peru, Uruguay and Venezuela. Voridian PET 9921P will be used primarily for thick wall applications such as refill bottles for water and carbonated soft drinks. Applications/Uses APET and thick sheet Beverage packaging Custom containers Thick wall containers Bottles Sealing layer for CPET trays Refillable bottles

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-9921P-PET-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Bulk Density	0.803 g/cc	0.0290 lb/in ³	Poured; ASTM D1895
	0.881 g/cc	0.0318 lb/in ³	Vibrated; ASTM D1895
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
	1.40 g/cc	0.0506 lb/in ³	Crystalline Density; ASTM D1505
Melt Density	1.20 g/cc	0.0434 lb/in ³	ASTM D1238
	@Temperature 285 °C	@Temperature 545 °F	
Viscosity Measurement	0.78 - 0.82	0.78 - 0.82	Pellet, Intrinsic; VGAS-A-AN-G-V-1

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength at Break	26.0 MPa	3770 psi	ISO 527
	31.0 MPa	4500 psi	ASTM D638
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527
	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	114 %	114 %	ISO 527
	173 %	173 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
	2.332 GPa	338.2 ksi	ISO 527
Flexural Yield Strength	76.0 MPa	11000 psi	ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.340 J/cm @Temperature -40.0 °C	0.637 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.790 J/cm @Temperature 23.0 °C	1.48 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ASTM D4812
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ASTM D4812
Izod Impact, Notched (ISO)	3.90 kJ/m ² @Temperature -40.0 °C	1.86 ft-lb/in ² @Temperature -40.0 °F	ISO 180
	6.80 kJ/m ² @Temperature 23.0 °C	3.24 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Puncture Energy	8.20 J @Thickness 2.70 mm, Temperature -40.0 °C	6.05 ft-lb @Thickness 0.106 in, Temperature -40.0 °F	max load; ASTM D3763
	31.0 J @Thickness 2.70 mm, Temperature 23.0 °C	22.9 ft-lb @Thickness 0.106 in, Temperature 73.4 °F	max load; ASTM D3763

Thermal Properties	Metric	English	Comments
Heat of Fusion	61.0 J/g	26.2 BTU/lb	ASTM E793
Specific Heat Capacity	1.20 J/g-°C	0.287 BTU/lb-°F	ASTM E1269
	1.40 J/g-°C @Temperature 80.0 °C	0.335 BTU/lb-°F @Temperature 176 °F	ASTM E1269
	1.60 J/g-°C @Temperature 100 °C	0.382 BTU/lb-°F @Temperature 212 °F	ASTM E1269
	2.00 J/g-°C @Temperature 200 °C	0.478 BTU/lb-°F @Temperature 392 °F	ASTM E1269
	2.10 J/g-°C @Temperature 280 °C	0.502 BTU/lb-°F @Temperature 536 °F	ASTM E1269
Melting Point	239 °C	462 °F	Crystalline Peak Melting Point; ASTM D3418

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	69.0 °C	156 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648
	64.0 °C	147 °F	ISO 75

Descriptive Properties	Value	Comments
Acetaldehyde	<1ppm	VKCA-A-AS-G-GC-0001
Color, CIE a*	-3.5 to -0.5	VGAS-A-AN-G-RS-001
Color, CIE b*	-2.5 to 1.5	VGAS-A-AN-G-RS-001
Color, CIE L*	78 min	VGAS-A-AN-G-RS-001
Fines, wt%, max	0.05	VGAS-A-AN-G-GA-1
Pellet Shape	Rectangular 2x2x3 mm	

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