

## Eastman 7352 PET (discontinued \*\*)

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

### Material Notes:

VORIDIAN PET thermoplastic polyesters are condensation polymers produced by a continuous melt-phase polymerization process followed by a solid-state polymerization process. VORIDIAN PET polyester 7352 is a homopolymer PET that has been crystallized. Applications/Uses Automotive parts containers Food packaging Household products containers Pharmaceutical containers Medical Health and Nutrition Containers Food-contact containers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-7352-PET-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Eastman-7352-PET-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Bulk Density	0.817 g/cc	0.0295 lb/in <sup>3</sup>	Poured; ASTM D1895
	0.881 g/cc	0.0318 lb/in <sup>3</sup>	Vibrated; ASTM D1895
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	Crystalline Density; ASTM D1505
Melt Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D1238
	@Temperature 285 °C	@Temperature 545 °F	
Water Absorption	0.10 %	0.10 %	24h Immersion; ASTM D570
Particle Size	2500 µm	2500 µm	Pellet Size
Viscosity Measurement	0.72 - 0.76	0.72 - 0.76	Intrinsic; VGAS-A-AN-G-V-1
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D638
Tensile Strength, Yield	57.0 MPa	8270 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.360 J/cm	0.674 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.510 J/cm	0.955 ft-lb/in	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D256 Comments
Izod Impact, Unnotched	NB	NB	ASTM D4812
	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D4812

Thermal Properties	Metric	English	Comments
Heat of Fusion	63.0 J/g	27.1 BTU/lb	ASTM E793
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	ASTM E1269
	1.30 J/g-°C @Temperature 80.0 °C	0.311 BTU/lb-°F @Temperature 176 °F	ASTM E1269
	1.40 J/g-°C @Temperature 100 °C	0.335 BTU/lb-°F @Temperature 212 °F	ASTM E1269
	1.90 J/g-°C @Temperature 200 °C	0.454 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	250 °C	482 °F	Crystalline Peak Melting Point; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	66.0 °C	151 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648
Vicat Softening Point	79.0 °C	174 °F	1kg load; ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	ASTM D150
	3.2 @Frequency 1000 Hz	3.2 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	15.7 kV/mm	399 kV/in	Short Time, 500V/sec; ASTM D149

Electrical Properties	0.0080 Metric	0.0080 English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	155 sec	155 sec	ASTM D495

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 295 °C	527 - 563 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Drying Temperature	150 - 160 °C	302 - 320 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

Descriptive Properties	Value	Comments
Acetaldehyde	<3ppm	VKCA-A-AS-G-GC-0001
Color, CIE a*	-2.0 ± 1.5	VGAS-A-AN-G-RS-001
Color, CIE b*	0.4 ± 1.5	VGAS-A-AN-G-RS-001
Color, CIE L*	78.5 min	VGAS-A-AN-G-RS-001
Fines, wt%, max	0.05	VGAS-A-AN-G-GA-1
Pellet Shape	Cubical	

## Contact Songhan Plastic Technology Co.,Ltd.

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