

## Eastman Eastar 6763 PETG Copolyester



**Categories:** [Polymer](#); [Thermoplastic](#); [Polyester, TP](#); [Polyethylene Terephthalate \(PET\)](#)

**Material Notes:** ISO data as provided by the manufacturer, Eastman Chemical


**Key Words:** Polyethylene Terephthalate Glycol

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.00200 - 0.00500 cm/cm	0.00200 - 0.00500 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min
Elongation at Break	>= 50.0 %	>= 50.0 %	
Elongation at Yield	4.20 %	4.20 %	
Tensile Modulus	2.09 GPa	303 ksi	1mm/min
Charpy Impact Unnotched	NB	NB	
 Charpy Impact, Notched	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.670 J/cm <sup>2</sup>	3.19 ft-lb/in <sup>2</sup>	
 Charpy Impact, Notched	0.420 J/cm <sup>2</sup>	2.00 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Strength	16.0 kV/mm	406 kV/in	
Dissipation Factor	0.0200	0.0200	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Thermal Properties	Metric	English	Comments
CTE, linear	77.0 µm/m-°C	42.8 µin/in-°F	in flow direction
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	83.0 µm/m-°C	46.1 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	
Vicat Softening Point	74.0 °C	165 °F	
Glass Transition Temp, Tg	81.0 °C	178 °F	
Flammability, UL94 	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.