

## E-Polymers TEKASTER® F615G55 55% Glass Fiber Reinforced High Modulus PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 60% Glass Reinforced

### Material Notes:

Polyester Resin: TEKASTER is thermoplastic polyester resins (PBT, PET) mostly injection molding. PBT has excellent mechanical properties and well balanced engineering plastics with an electrical performance. Specially G/F reinforced PET has excellent heat resistance, a good surface, chemical resistance and high electrical performance. Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_E-Polymers-TEKASTER-F615G55-55-Glass-Fiber-Reinforced-High-Modulus-PET.php](http://www.lookpolymers.com/polymer_E-Polymers-TEKASTER-F615G55-55-Glass-Fiber-Reinforced-High-Modulus-PET.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.77 g/cc	1.77 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	188.4 MPa	27320 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	289.4 MPa	41970 psi	ASTM D790
Flexural Modulus	17.9 GPa	2600 ksi	ASTM D790
Izod Impact, Notched	1.08 J/cm	2.02 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	246 °C	475 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	444 °F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	

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