

## E-Polymers Tekaster® F615GFR , Flame Retardant, 30% Glass Reinforced PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

### Material Notes:

30% Glass Fiber Reinforced, Flame Retardant Information provided by E-Polymers Co. Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_E-Polymers-Tekaster-F615GFR-Flame-Retardant-30-Glass-Reinforced-PET.php](http://www.lookpolymers.com/polymer_E-Polymers-Tekaster-F615GFR-Flame-Retardant-30-Glass-Reinforced-PET.php)

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	150 MPa	21800 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Flexural Yield Strength	230 MPa	33400 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	0.800 J/cm @Temperature -40.0 °C	1.50 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	254 °C	489 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	33 %	33 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	IEC 250
Dissipation Factor	0.018 @Frequency 1e+6 Hz	0.018 @Frequency 1e+6 Hz	IEC 250

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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