

**Samsung Cheil Industries Infino® XF-4150 PPA, Glass Filled**

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 10% Glass Fiber Reinforced

**Material Notes:**

Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-XF-4150-PPA-Glass-Filled.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-XF-4150-PPA-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	13 g/10 min	13 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 315 °C	@Load 4.76 lb, Temperature 599 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	216 MPa	31300 psi	5 mm/min; ASTM D638
Elongation at Break	2.7 %	2.7 %	5 mm/min; ASTM D638
Flexural Strength	275 MPa	39900 psi	2.8 mm/min; ASTM D638
Flexural Modulus	13.2 GPa	1920 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	191 °C	376 °F	B/50; ISO R306

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