

**Samsung Cheil Industries Infino® CF- 1050 PC, Unreinforced High Impact**

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

**Material Notes:**

High-impact material for the exterior material of mobile phone. Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-CF-1050-PC-Unreinforced-High-Impact.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-CF-1050-PC-Unreinforced-High-Impact.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 250 °C	20 g/10 min @Load 22.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	58.8 MPa	8530 psi	50 mm/min; ASTM D638
Flexural Strength	88.3 MPa	12800 psi	2.8 mm/min; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	7.35 J/cm @Thickness 3.17 mm	13.8 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	128 °C @Thickness 6.40 mm	262 °F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	143 °C	289 °F	B/50; ISO R306
Flammability, UL94	V-2 @Thickness 0.800 - 3.00 mm	V-2 @Thickness 0.0315 - 0.118 in	

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