

## Samsung Cheil Industries Infino<sup>®</sup> CF-1051 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-1051-PC-Unreinforced-High-Impact.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-CF-1051-PC-Unreinforced-High-Impact.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Å°C	@Load 2.65 lb, Temperature 572 Å°F	
	22 g/10 min	22 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Å°C	@Load 22.0 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	58.8 MPa	8530 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	58.8 MPa	8530 psi	50 mm/min; ASTM D638
Elongation at Break	100 %	100 %	50 mm/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	83.4 MPa	12100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	5.39 J/cm	10.1 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	6.86 J/cm	12.9 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)	129 Â°C @Thickness 6.40 mm	264 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	137 Â°C	279 Â°F	B/50; ISO R306
Flammability, UL94	HB @Thickness 0.800 - 3.00 mm	HB @Thickness 0.0315 - 0.118 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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