

## Samsung Cheil Industries Infino<sup>®</sup> WP-1089 PC/ABS, Unreinforced

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-WP-1089-PCABS-Unreinforced.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-WP-1089-PCABS-Unreinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 260 Å°C	30 g/10 min @Load 11.0 lb, Temperature 500 Å°F	ASTM D1238
	47 g/10 min @Load 10.0 kg, Temperature 250 Å°C	47 g/10 min @Load 22.0 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	54.4 MPa	7890 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	53.0 MPa	7680 psi	50 mm/min; ASTM D638
Elongation at Break	88 %	88 %	50 mm/min; ASTM D638
Tensile Modulus	1.96 GPa	284 ksi	50 mm/min; ASTM D638
Flexural Strength	75.5 MPa	11000 psi	2.8 mm/min; ASTM D638
Flexural Modulus	2.11 GPa	306 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	1.96 J/cm @Thickness 6.35 mm, Temperature -30.0 Å°C	3.67 ft-lb/in @Thickness 0.250 in, Temperature -22.0 Å°F	ASTM D256
	3.92 J/cm @Thickness 3.17 mm, Temperature -30.0 Å°C	7.35 ft-lb/in @Thickness 0.125 in, Temperature -22.0 Å°F	ASTM D256

Mechanical Properties	Metric/cm	English/lb/in	Comments
	@Thickness 6.35 mm, Temperature 23.0 Â°C	@Thickness 0.250 in, Temperature 73.4 Â°F	ASTM D256
	5.88 J/cm	11.0 ft-lb/in	
	@Thickness 3.17 mm, Temperature 23.0 Â°C	@Thickness 0.125 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.10 Âµm/m-Â°C	4.50 Âµin/in-Â°F	
	@Temperature 40.0 - 100 Â°C	@Temperature 104 - 212 Â°F	ASTM E831
CTE, linear, Transverse to Flow	8.30 Âµm/m-Â°C	4.61 Âµin/in-Â°F	
	@Temperature 40.0 - 100 Â°C	@Temperature 104 - 212 Â°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	130 Â°C	266 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	ASTM D648
Vicat Softening Point	130 Â°C	266 Â°F	B/50; ISO R306

## Contact Songhan Plastic Technology Co.,Ltd.

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