

Samsung Cheil Industries Infino® NH-1021 PC/ABS, Unreinforced FR

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-NH-1021-PCABS-Unreinforced-FR.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | ASTM D792 |
| Melt Flow | 25 g/10 min | 25 g/10 min | ASTM D1238 |
| | @Load 10.0 kg, Temperature 220 °C | @Load 22.0 lb, Temperature 428 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--------------------|---------------------|-----------------------|
| Hardness, Rockwell R | 120 | 120 | ASTM D785 |
| Tensile Strength at Break | 66.7 MPa | 9670 psi | 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 62.8 MPa | 9100 psi | 50 mm/min; ASTM D638 |
| Elongation at Break | 96 % | 96 % | 50 mm/min; ASTM D638 |
| Tensile Modulus | 2.35 GPa | 341 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 86.3 MPa | 12500 psi | 2.8 mm/min; ASTM D790 |
| Flexural Modulus | 2.26 GPa | 327 ksi | 2.8 mm/min; ASTM D790 |
| Izod Impact, Notched | 1.86 J/cm | 3.49 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 0.46 MPa (66 psi) | 97.0 °C | 207 °F | ASTM D648 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Deflection Temperature at 1.8 MPa (264 psi) | 89.0 °C | 192 °F | ASTM D648 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| Vicat Softening Point | 102 °C | 216 °F | B/50; ISO R306 |
| | | | B/120; ISO R306 |

| Thermal Properties | 104 °C Metric | 219 °F English | Comments |
|--------------------|--------------------|----------------------|----------|
| Flammability, UL94 | V-0 | V-0 | |
| | @Thickness 1.30 mm | @Thickness 0.0512 in | |

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