

## Samsung Cheil Industries Infino® PCA-NH1015V Flame Retardant

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

Material Notes:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samsung-Cheil-Industries-Infino-PCA-NH1015V-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-PCA-NH1015V-Flame-Retardant.php)

| Physical Properties         | Metric                                              | English                                             | Comments  |
|-----------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------|
| Density                     | 1.17 g/cc                                           | 0.0423 lb/in <sup>3</sup>                           | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm<br>@Thickness 3.20 mm         | 0.0050 - 0.0070 in/in<br>@Thickness 0.126 in        | ASTM D955 |
| Melt Flow                   | 30 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 30 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | ASTM 1238 |

| Mechanical Properties      | Metric    | English       | Comments     |
|----------------------------|-----------|---------------|--------------|
| Hardness, Rockwell R       | 118       | 118           | ASTM D785    |
| Tensile Strength, Ultimate | 48.0 MPa  | 6960 psi      | ASTM D638    |
| Tensile Modulus            | 2.50 GPa  | 363 ksi       | ISO 527-2/50 |
| Flexural Strength          | 84.8 MPa  | 12300 psi     | ASTM D790    |
| Flexural Modulus           | 2.40 GPa  | 348 ksi       | ASTM D790    |
| Izod Impact, Notched       | 5.34 J/cm | 10.0 ft-lb/in | ASTM D256    |

| Thermal Properties                          | Metric                        | English                       | Comments               |
|---------------------------------------------|-------------------------------|-------------------------------|------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 94.0 °C                       | 201 °F                        | Unannealed; ISO 75-2/B |
| Deflection Temperature at 1.8 MPa (264 psi) | 86.0 °C<br>@Thickness 6.35 mm | 187 °F<br>@Thickness 0.250 in | Unannealed; ASTM D648  |
| Vicat Softening Point                       | 100 - 102 °C                  | 212 - 216 °F                  | ISO 306, B50           |
| Flammability, UL94                          | V-0<br>@Thickness 1.50 mm     | V-0<br>@Thickness 0.0591 in   |                        |
|                                             | 5VB<br>@Thickness 2.00 mm     | 5VB<br>@Thickness 0.0787 in   |                        |

## Contact Songhan Plastic Technology Co.,Ltd.

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