

## Denka MALECCA K-300 ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

A heat-resistant ABS resin based on "DENKA IP" – a Styrene-N-Phenylmaleimide copolymer. It has been designed as an easy-to-use resin by improving conventional heat-resistant ABS resins which had defects in terms of moldability, thermal stability, and impact resistance. Applications Mobile phones vehicle-mounted audio equipment automotive interior components home electric appliances OA equipment, etc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Denka-MALECCA-K-300-ABS.php](http://www.lookpolymers.com/polymer_Denka-MALECCA-K-300-ABS.php)

| Physical Properties | Metric                                               | English                                              | Comments  |
|---------------------|------------------------------------------------------|------------------------------------------------------|-----------|
| Specific Gravity    | 1.06 g/cc                                            | 1.06 g/cc                                            | ASTM D792 |
| Density             | 1.08 g/cc                                            | 0.0390 lb/in <sup>3</sup>                            | ISO 1183  |
| Melt Flow           | 4.0 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 4.0 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | ISO 1133  |

| Mechanical Properties     | Metric                            | English                               | Comments            |
|---------------------------|-----------------------------------|---------------------------------------|---------------------|
| Hardness, Rockwell R      | 114                               | 114                                   | ASTM D785           |
|                           | 116                               | 116                                   | ISO 2039-2          |
| Tensile Strength at Break | 41.0 MPa                          | 5950 psi                              | ASTM D638           |
|                           | 48.0 MPa                          | 6960 psi                              | 50mm/min; ISO 527-2 |
| Tensile Strength, Yield   | 40.0 MPa                          | 5800 psi                              | ISO 527-2           |
| Elongation at Break       | 21 %                              | 21 %                                  | ISO 527-2           |
| Tensile Modulus           | 2.45 GPa                          | 355 ksi                               | 1mm/min; ISO 527-1  |
| Flexural Strength         | 75.0 MPa                          | 10900 psi                             | 15mm/min; ASTM D790 |
|                           | 79.0 MPa                          | 11500 psi                             | ISO 178             |
| Flexural Modulus          | 2.25 GPa                          | 326 ksi                               | 15mm/min; ASTM D790 |
|                           | 2.45 GPa                          | 355 ksi                               | 2mm/min; ISO 178    |
| Izod Impact, Notched      | 1.76 J/cm<br>@Temperature 23.0 °C | 3.30 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256           |
| Charpy Impact, Notched    | 1.60 J/cm <sup>2</sup>            | 7.61 ft-lb/in <sup>2</sup>            | ISO 179-2           |

| Thermal Properties                             | Metric | English | Comments     |
|------------------------------------------------|--------|---------|--------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 100 °C | 212 °F  | ISO 75-2     |
|                                                | 110 °C | 230 °F  | ASTM D648    |
| Vicat Softening Point                          | 120 °C | 248 °F  | 50N; ISO 306 |
| Flammability, UL94                             | HB     | HB      |              |

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