

## Kingfa HR-527 Modified ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded

### Material Notes:

Features:UL94 HB @ 1.5-3.2mmImpact resistanceApplications:Automobile partsAutomobile audioDashboard, interior trimAutomobile lamp, mirrorInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-HR-527-Modified-ABS.php](http://www.lookpolymers.com/polymer_Kingfa-HR-527-Modified-ABS.php)

| Physical Properties   | Metric                             | English                            | Comments   |
|-----------------------|------------------------------------|------------------------------------|------------|
| Specific Gravity      | 1.04 g/cc                          | 1.04 g/cc                          | ASTM D792  |
|                       | @Temperature 23.0 Å°C              | @Temperature 73.4 Å°F              |            |
| Linear Mold Shrinkage | 0.0040 - 0.0070 cm/cm              | 0.0040 - 0.0070 in/in              | ASTM D955  |
|                       | @Temperature 23.0 Å°C              | @Temperature 73.4 Å°F              |            |
| Melt Flow             | 1.8 g/10 min                       | 1.8 g/10 min                       | ASTM D1238 |
|                       | @Load 5.00 kg, Temperature 200 Å°C | @Load 11.0 lb, Temperature 392 Å°F |            |
|                       | 20 g/10 min                        | 20 g/10 min                        | ASTM D1238 |
|                       | @Load 10.0 kg, Temperature 220 Å°C | @Load 22.0 lb, Temperature 428 Å°F |            |

| Mechanical Properties     | Metric                                   | English                                   | Comments            |
|---------------------------|------------------------------------------|-------------------------------------------|---------------------|
| Hardness, Rockwell R      | 108                                      | 108                                       | ASTM D785           |
| Tensile Strength at Break | 45.0 MPa                                 | 6530 psi                                  | 50mm/min; ASTM D638 |
| Elongation at Break       | 20 %                                     | 20 %                                      | 50mm/min; ASTM D638 |
| Flexural Strength         | 68.0 MPa                                 | 9860 psi                                  | 2mm/min; ASTM D790  |
| Flexural Modulus          | 2.40 GPa                                 | 348 ksi                                   | 2mm/min; ASTM D790  |
| Izod Impact, Notched      | 2.12 J/cm                                | 3.97 ft-lb/in                             | ASTM D256           |
|                           | @Thickness 6.40 mm, Temperature 23.0 Å°C | @Thickness 0.252 in, Temperature 73.4 Å°F |                     |
|                           | 2.41 J/cm                                | 4.51 ft-lb/in                             | ASTM D256           |
|                           | @Thickness 3.20 mm, Temperature 23.0 Å°C | @Thickness 0.126 in, Temperature 73.4 Å°F |                     |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties                          | Metric                         | English                        | Comments               |
|---------------------------------------------|--------------------------------|--------------------------------|------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 89.0 Â°C<br>@Thickness 6.40 mm | 210 Â°F<br>@Thickness 0.252 in | ASTM D648              |
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 Â°C<br>@Thickness 6.40 mm | 194 Â°F<br>@Thickness 0.252 in | ASTM D648              |
| Vicat Softening Point                       | 96.0 Â°C<br>@Load 5.00 kg      | 205 Â°F<br>@Load 11.0 lb       | 50Â°C/min; ASTM D1525  |
|                                             | 105 Â°C<br>@Load 1.00 kg       | 221 Â°F<br>@Load 2.20 lb       | 120Â°C/min; ASTM D1525 |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm       | HB<br>@Thickness 0.0591 in     |                        |
|                                             | HB<br>@Thickness 3.20 mm       | HB<br>@Thickness 0.126 in      |                        |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Strength   | 23.0 kV/mm      | 584 kV/in       | ASTM D149 |

| Processing Properties     | Metric                                    | English                                 | Comments            |
|---------------------------|-------------------------------------------|-----------------------------------------|---------------------|
| Processing Temperature    | <= 250 Â°C                                | <= 482 Â°F                              |                     |
| Rear Barrel Temperature   | 180 - 205 Â°C                             | 356 - 401 Â°F                           | Start Point: 190Â°C |
| Middle Barrel Temperature | 205 - 230 Â°C                             | 401 - 446 Â°F                           | Start Point: 215Â°C |
| Front Barrel Temperature  | 215 - 240 Â°C                             | 419 - 464 Â°F                           | Start Point: 225Â°C |
| Melt Temperature          | 220 - 245 Â°C                             | 428 - 473 Â°F                           | Start Point: 230Â°C |
| Mold Temperature          | 30.0 - 60.0 Â°C                           | 86.0 - 140 Â°F                          | Start Point: 50Â°C  |
| Drying Temperature        | 80.0 - 90.0 Â°C<br>@Time 7200 - 14400 sec | 176 - 194 Â°F<br>@Time 2.00 - 4.00 hour | Pre-dry             |
| Back Pressure             | 0.000 - 1.00 MPa                          | 0.000 - 145 psi                         |                     |

| Descriptive Properties | Value            | Comments |
|------------------------|------------------|----------|
| Injection Speed        | Slow to Moderate |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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