

## LG Chemical LI968W Co-Extrusion ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

### Material Notes:

Description: Good Weatherability Application: Window Profile, Siding, Rain Gutter CAS: 26299-47-8 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LI968W-Co-Extrusion-ASA.php](http://www.lookpolymers.com/polymer_LG-Chemical-LI968W-Co-Extrusion-ASA.php)

| Physical Properties         | Metric   | English  | Comments          |
|-----------------------------|--|--|-------------------|
| Specific Gravity            | 1.07 g/cc  | 1.07 g/cc  | ASTM D792         |
| Maximum Moisture Content    | 0.010  | 0.010  | Extrusion Molding |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0070 cm/cm<br>@Thickness 3.20 mm          | 0.0040 - 0.0070 in/in<br>@Thickness 0.126 in         | ASTM D955         |
| Melt Flow                   | 12 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 Å°C | 12 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 Å°F | ASTM D1238        |

| Mechanical Properties   | Metric   | English   | Comments            |
|-------------------------|--|---|---------------------|
| Hardness, Rockwell R    | 104  | 104   | ASTM D785           |
| Tensile Strength, Yield | 49.0 MPa<br>@Thickness 3.20 mm                             | 7110 psi<br>@Thickness 0.126 in                                 | 50mm/min; ASTM D638 |
| Elongation at Break     | 25 %<br>@Thickness 3.20 mm                                 | 25 %<br>@Thickness 0.126 in                                     | 50mm/min; ASTM D638 |
| Elongation at Yield     | >= 6.0 %<br>@Thickness 3.20 mm                             | >= 6.0 %<br>@Thickness 0.126 in                                 | 50mm/min; ASTM D638 |
| Tensile Modulus         | 2.06 GPa<br>@Thickness 3.20 mm                             | 299 ksi<br>@Thickness 0.126 in                                  | 1mm/min; ASTM D638  |
| Flexural Yield Strength | 78.5 MPa<br>@Thickness 3.20 mm                             | 11400 psi<br>@Thickness 0.126 in                                | 15mm/min; ASTM D790 |
| Flexural Modulus        | 2.26 GPa<br>@Thickness 3.20 mm                             | 327 ksi<br>@Thickness 0.126 in                                  | 15mm/min; ASTM D790 |
| Izod Impact, Notched    | 0.392 J/cm<br>@Thickness 3.20 mm,<br>Temperature -30.0 Å°C | 0.735 ft-lb/in<br>@Thickness 0.126 in,<br>Temperature -22.0 Å°F | ASTM D256           |

| Mechanical Properties | 0.392 J/cm<br>Metric                         | 0.735 ft-lb/in<br>English                     | Comments<br>ASTM D256 |
|-----------------------|--|---|-----------------------|
|                       | @Thickness 6.40 mm,<br>Temperature -30.0 Å°C | @Thickness 0.252 in,<br>Temperature -22.0 Å°F |                       |
|                       | 1.37 J/cm                                    | 2.57 ft-lb/in                                 | ASTM D256             |
|                       | @Thickness 6.40 mm,<br>Temperature 23.0 Å°C  | @Thickness 0.252 in,<br>Temperature 73.4 Å°F  |                       |
|                       | 1.77 J/cm                                    | 3.31 ft-lb/in                                 | ASTM D256             |
|                       | @Thickness 3.20 mm,<br>Temperature 23.0 Å°C  | @Thickness 0.126 in,<br>Temperature 73.4 Å°F  |                       |

| Thermal Properties                             | Metric               | English                   | Comments              |
|--|----------------------|---------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 96.0 Å°C             | 205 Å°F                   | Unannealed; ASTM D648 |
|  | @Thickness 6.40 mm   | @Thickness 0.252 in       |                       |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 87.0 Å°C             | 189 Å°F                   | Unannealed; ASTM D648 |
|  | @Thickness 6.40 mm   | @Thickness 0.252 in       |                       |
| Vicat Softening Point                          | 95.0 Å°C             | 203 Å°F                   | 50Å°C/h; ASTM D1525   |
|  | @Load 5.00 kg        | @Load 11.0 lb             |                       |
| Flammability, UL94                             | HB                   | HB                        |                       |
|  | @Thickness >=1.60 mm | @Thickness >=0.0630<br>in |                       |
|  | HB                   | HB                        |                       |
|  | @Thickness >=3.20 mm | @Thickness >=0.126 in     |                       |

| Processing Properties | Metric          | English       | Comments          |
|-----------------------|-----------------|---------------|-------------------|
| Zone 1                | 190 - 200 Å°C   | 374 - 392 Å°F | Extrusion Molding |
| Zone 2                | 200 - 220 Å°C   | 392 - 428 Å°F | Extrusion Molding |
| Zone 3                | 210 - 230 Å°C   | 410 - 446 Å°F | Extrusion Molding |
| Zone 4                | 210 - 230 Å°C   | 410 - 446 Å°F | Extrusion Molding |
| Adapter Temperature   | 210 - 230 Å°C   | 410 - 446 Å°F | Extrusion Molding |
| Die Temperature       | 210 - 250 Å°C   | 410 - 482 Å°F | Extrusion Molding |
| Melt Temperature      | 200 - 230 Å°C   | 392 - 446 Å°F | Extrusion Molding |
| Roll Temperature      | 70.0 - 90.0 Å°C | 158 - 194 Å°F | Top               |
|                       | 70.0 - 90.0 Å°C | 158 - 194 Å°F | Middle            |

| Processing Properties | 70.0 - 100.0 Å°C<br>Metric | 158 - 212 Å°F<br>English | Bottom<br>Comments |
|-----------------------|----------------------------|--------------------------|--------------------|
| Drying Temperature    | 80.0 - 90.0 Å°C            | 176 - 194 Å°F            | Extrusion Molding  |
| Dry Time              | 2.00 - 3.00 hour           | 2.00 - 3.00 hour         | Extrusion Molding  |

## Contact Songhan Plastic Technology Co.,Ltd.

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