

## SCG Chemicals EL-Leneâ,,ç H511W High Density Polyethylene Wire & Cable Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , HDPE , Fiber Grade

### Material Notes:

Key Characteristics: Contains special metal deactivator, high mechanical properties, high speed extrusion  
 Recommended Applications:  
 Insulation of communication cables  
 Information provided by SCG Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SCG-Chemicals-EL-Lene-H511W-High-Density-Polyethylene-Wire-Cable-Grade.php](http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H511W-High-Density-Polyethylene-Wire-Cable-Grade.php)

| Physical Properties                   | Metric                                                 | English                                                | Comments                   |
|---------------------------------------|--------------------------------------------------------|--------------------------------------------------------|----------------------------|
| Specific Gravity                      | 0.949 g/cc                                             | 0.949 g/cc                                             | ASTM D1505                 |
| Environmental Stress Crack Resistance | >= 168 hour<br>@Temperature 50.0 Å°C                   | >= 168 hour<br>@Temperature 122 Å°F                    | F0, 10% Igepal; ASTM D1693 |
| Oxidative Induction Time (OIT)        | >= 100 min<br>@Temperature 200 Å°C                     | >= 100 min<br>@Temperature 392 Å°F                     | ASTM D3895                 |
| Melt Flow                             | 0.90 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 Å°C | 0.90 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 Å°F | ASTM D1238                 |

| Mechanical Properties     | Metric                             | English                                | Comments   |
|---------------------------|------------------------------------|----------------------------------------|------------|
| Hardness, Shore D         | 62                                 | 62                                     | ASTM D2240 |
| Tensile Strength at Break | 33.0 MPa                           | 4790 psi                               | ASTM D638  |
| Tensile Strength, Yield   | 22.6 MPa                           | 3270 psi                               | ASTM D638  |
| Elongation at Break       | >= 600 %                           | >= 600 %                               | ASTM D638  |
| Flexural Modulus          | >= 0.785 GPa                       | >= 114 ksi                             | ASTM D790  |
| Izod Impact, Notched      | 1.37 J/cm<br>@Temperature 23.0 Å°C | 2.57 ft-lb/in<br>@Temperature 73.4 Å°F | ASTM D256  |

| Thermal Properties      | Metric       | English     | Comments  |
|-------------------------|--------------|-------------|-----------|
| Brittleness Temperature | <= -75.0 Å°C | <= -103 Å°F | ASTM D746 |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

| Electrical Properties | Metric     | English   | Comments   |
|-----------------------|------------|-----------|------------|
| Dielectric Strength   | 20.0 kV/mm | 508 kV/in | ASTM D149  |
| Dissipation Factor    | 0.000060   | 0.000060  | ASTM D1531 |

## Contact Songhan Plastic Technology Co.,Ltd.

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