

## Gromax 1140LH TPE

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

Product Description: 1140LH is Low modulus grade with nominal Durometer hardness of 40D. It contains color stable antioxidants. It can be processed by thermoplastic processing techniques like injection molding and extrusion molding grade. Characteristics:Excellent low modulus for injection molding and extrusion molding grade.Excellent flexibility and fatigue resistance.Excellent creep resistance.Excellent low shrinkage and higher melting temperatureInformation provided by Gromax Enterprises Corp.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gromax-1140LH-TPE.php](http://www.lookpolymers.com/polymer_Gromax-1140LH-TPE.php)

| Physical Properties   | Metric   | English  | Comments  |
|-----------------------|--|--|-----------|
| Specific Gravity      | 1.146 g/cc   | 1.146 g/cc   | ISO 1183  |
| Moisture Absorption   | 0.500 %<br>@Time 86400 sec                           | 0.500 %<br>@Time 24.0 hour                           | ISO 62    |
| Linear Mold Shrinkage | 0.065 cm/cm  | 0.065 in/in  | ISO 294-4 |
| Melt Flow             | 30 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 Â°C | 30 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 Â°F | ISO 1133  |

| Mechanical Properties  | Metric    | English  | Comments    |
|------------------------|-----------|----------|-------------|
| Hardness, Shore D      | 40        | 40       | ISO 868     |
| Tensile Strength       | 19.6 MPa  | 2840 psi | ISO 527     |
| Elongation at Break    | 460 %     | 460 %    | ISO 527     |
| Tensile Modulus        | 0.115 GPa | 16.7 ksi | ISO 527     |
| Flexural Modulus       | 0.113 GPa | 16.4 ksi | ISO 178     |
| Charpy Impact, Notched | NB        | NB       | ISO 179/1eA |

| Thermal Properties | Metric  | English | Comments  |
|--------------------|---------|---------|-----------|
| Melting Point      | 207 Â°C | 405 Â°F | ISO 3146C |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 4.88e+12 ohm-cm | 4.88e+12 ohm-cm | IEC 60093 |
| Surface Resistance    | 8.10e+13 ohm    | 8.10e+13 ohm    | IEC 60093 |

| Electrical Properties | 16.4 kV/mm<br>Metric | 417 kV/in<br>English | Comments |
|-----------------------|----------------------|----------------------|----------|
|                       | @Thickness 2.00 mm   | @Thickness 0.0787 in |          |

| Processing Properties     | Metric                                   | English   | Comments |
|---------------------------|--|---|----------|
| Rear Barrel Temperature   | 210 - 220 Â°C                            | 410 - 428 Â°F                                     |          |
| Middle Barrel Temperature | 220 - 250 Â°C                            | 428 - 482 Â°F                                     |          |
| Front Barrel Temperature  | 220 - 250 Â°C                            | 428 - 482 Â°F                                     |          |
| Nozzle Temperature        | 220 - 250 Â°C                            | 428 - 482 Â°F                                     |          |
| Mold Temperature          | 20.0 - 50.0 Â°C                          | 68.0 - 122 Â°F                                    |          |
| Injection Pressure        | 30.0 - 100 MPa<br>@Time 2.00 - 10.0 sec  | 4350 - 14500 psi<br>@Time 0.000556 - 0.00278 hour |          |
| Hold Pressure             | 5.00 - 40.0 MPa<br>@Time 10.0 - 30.0 sec | 725 - 5800 psi<br>@Time 0.00278 - 0.00833 hour    |          |
| Screw Speed               | 40 - 80 rpm                              | 40 - 80 rpm                                       |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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