

## Ravago Manufacturing Americas Hylac® FR134G10 ABS, 10% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% Glass Fiber Filled

### Material Notes:

Entec's proprietary products include a full range of compounds in the Nylon 6/6, Nylon 6, ABS, PBT, Polycarbonate, PC/ABS, PC/ASA, PC/PBT, and PPO/PPE resin families. Information provided by Ravago.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ravago-Manufacturing-Americas-Hylac-FR134G10-ABS-10-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylac-FR134G10-ABS-10-Glass-Fiber-Reinforced.php)

| Physical Properties   | Metric                                               | English                                              | Comments   |
|-----------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density               | 1.37 g/cc                                            | 0.0495 lb/in <sup>3</sup>                            | ASTM D792  |
| Linear Mold Shrinkage | 0.0030 - 0.0040 cm/cm                                | 0.0030 - 0.0040 in/in                                | ASTM D955  |
| Melt Flow             | 5.0 g/10 min<br>@Load 3.80 kg,<br>Temperature 230 °C | 5.0 g/10 min<br>@Load 8.38 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties   | Metric     | English       | Comments                  |
|-------------------------|------------|---------------|---------------------------|
| Hardness, Rockwell R    | 100        | 100           | ASTM D785                 |
| Tensile Strength, Yield | 46.9 MPa   | 6800 psi      | ASTM D638                 |
| Elongation at Break     | 6.0 %      | 6.0 %         | ASTM D638                 |
| Tensile Modulus         | 3.59 GPa   | 520 ksi       | ASTM D638                 |
| Flexural Yield Strength | 75.8 MPa   | 11000 psi     | ASTM D790                 |
| Flexural Modulus        | 2.96 GPa   | 430 ksi       | ASTM D790                 |
| Izod Impact, Notched    | 0.667 J/cm | 1.25 ft-lb/in | 73°F, 0.125 in; ASTM D256 |

| Thermal Properties                          | Metric                                         | English                                          | Comments              |
|---------------------------------------------|------------------------------------------------|--------------------------------------------------|-----------------------|
| CTE, linear                                 | 54.0 µm/m-°C<br>@Temperature -40.0 -<br>176 °C | 30.0 µin/in-°F<br>@Temperature -40.0 -<br>349 °F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 104 °C                                         | 220 °F                                           | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 102 °C                                         | 215 °F                                           | Unannealed; ASTM D648 |
| Flammability, UL94                          | V-0                                            | V-0                                              | 0.0590 in             |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | ASTM D257 |

| Processing Properties     | Metric            | English         | Comments |
|---------------------------|-------------------|-----------------|----------|
| Rear Barrel Temperature   | 168 - 179 °C      | 335 - 355 °F    |          |
| Middle Barrel Temperature | 171 - 191 °C      | 340 - 375 °F    |          |
| Front Barrel Temperature  | 182 - 193 °C      | 360 - 380 °F    |          |
| Nozzle Temperature        | 177 - 188 °C      | 350 - 370 °F    |          |
| Melt Temperature          | 202 °C            | 395 °F          | Aim      |
| Mold Temperature          | 48.9 - 71.1 °C    | 120 - 160 °F    |          |
| Moisture Content          | <= 0.10 %         | <= 0.10 %       |          |
| Injection Pressure        | 7.24 - 8.62 MPa   | 1050 - 1250 psi |          |
| Back Pressure             | 0.483 - 0.965 MPa | 70.0 - 140 psi  |          |
| Shot Size                 | 40 - 80 %         | 40 - 80 %       |          |
| Screw Speed               | 50 - 90 rpm       | 50 - 90 rpm     |          |

| Descriptive Properties | Value           | Comments |
|------------------------|-----------------|----------|
| Holding Pressure       | 900 to 1100 psi |          |
| Injection Rate         | Slow-Moderate   |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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