

## EMS-Grivory Grivory® BRZ 340 H PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Product description: Grilon BRZ 340 H is a heat stabilized, high viscosity, impact modified PA6 extrusion grade. Grilon BRZ 340 H has the following important properties: High impact strength at low temperatures High flexibility Low density Grilon BRZ 340 H is used typically for automotive applications which demand high flexibility and toughness such as flexible tubes and fuel tubes. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-BRZ-340-H-PA6.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BRZ-340-H-PA6.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Density             | 1.10 g/cc | 0.0397 lb/in <sup>3</sup> | ISO 1183 |
| Water Absorption    | 9.0 %     | 9.0 %                     | ISO 62   |
| Moisture Absorption | 3.00 %    | 3.00 %                    | ISO 62   |

| Mechanical Properties     | Metric    | English   | Comments                  |
|---------------------------|-----------|-----------|---------------------------|
| Ball Indentation Hardness | 45.0 MPa  | 6530 psi  | conditioned; ISO 2039-1   |
|                           | 130 MPa   | 18900 psi | dry; ISO 2039-1           |
| Tensile Strength at Break | 40.0 MPa  | 5800 psi  | dry; ISO 527-1/-2         |
|                           | 45.0 MPa  | 6530 psi  | conditioned; ISO 527-1/-2 |
| Tensile Strength, Yield   | 35.0 MPa  | 5080 psi  | dry; ISO 527-1/-2         |
|                           | 70.0 MPa  | 10200 psi | dry; ISO 527-1/-2         |
| Elongation at Break       | 40 %      | 40 %      | dry; ISO 527-1/-2         |
|                           | 40 %      | 40 %      | dry; ISO 527-1/-2         |
|                           | >= 50 %   | >= 50 %   | conditioned; ISO 527-1/-2 |
| Elongation at Yield       | 4.0 %     | 4.0 %     | dry; ISO 527-1/-2         |
|                           | 15 %      | 15 %      | conditioned; ISO 527-1/-2 |
| Tensile Modulus           | 0.700 GPa | 102 ksi   | conditioned; ISO 527-1/-2 |
|                           | 2.80 GPa  | 406 ksi   | dry; ISO 527-1/-2         |
| Charpy Impact Unnotched   | NB        | NB        | dry; ISO 179/1eU          |
|                           | NB        | NB        | conditioned; ISO 179/1eU  |

| Mechanical Properties  | <sup>NB</sup><br>Metric | <sup>NB</sup><br>English | Comments                 |
|------------------------|-------------------------|--------------------------|--------------------------|
|                        | @Temperature 30.0 °C    | @Temperature 86.0 °F     | dry; ISO 179/1eU         |
|                        | NB                      | NB                       | conditioned; ISO 179/1eU |
|                        | @Temperature 30.0 °C    | @Temperature 86.0 °F     |                          |
| Charpy Impact, Notched | 1.50 J/cm²              | 7.14 ft-lb/in²           | dry; ISO 179/1eA         |
|                        | NB                      | NB                       | conditioned; ISO 179/1eA |
|                        | 0.700 J/cm²             | 3.33 ft-lb/in²           | conditioned; ISO 179/1eU |
|                        | @Temperature 30.0 °C    | @Temperature 86.0 °F     |                          |
|                        | 1.10 J/cm²              | 5.23 ft-lb/in²           | dry; ISO 179/1eU         |
|                        | @Temperature 30.0 °C    | @Temperature 86.0 °F     |                          |

| Thermal Properties                          | Metric       | English        | Comments                 |
|---------------------------------------------|--------------|----------------|--------------------------|
| CTE, linear, Parallel to Flow               | 90.0 µm/m-°C | 50.0 µin/in-°F | ISO 11359-1/-2           |
| CTE, linear, Transverse to Flow             | 120 µm/m-°C  | 66.7 µin/in-°F | ISO 11359-1/-2           |
| Melting Point                               | 222 °C       | 432 °F         | 10°C/min; ISO 11357-1/-3 |
| Maximum Service Temperature, Air            | 100 - 120 °C | 212 - 248 °F   | long term; EMS           |
|                                             | 180 °C       | 356 °F         | short term; EMS          |
| Deflection Temperature at 0.46 MPa (66 psi) | 130 °C       | 266 °F         | ISO 75-1/-2              |
| Deflection Temperature at 1.8 MPa (264 psi) | 55.0 °C      | 131 °F         | ISO 75-1/-2              |
| Flammability, UL94                          | HB           | HB             | IEC 60695-11-10          |

| Electrical Properties      | Metric          | English         | Comments                 |
|----------------------------|-----------------|-----------------|--------------------------|
| Volume Resistivity         | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | conditioned; IEC 60093   |
|                            | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | dry; IEC 60093           |
| Surface Resistance         | 1.00e+12 ohm    | 1.00e+12 ohm    | IEC 60093                |
| Dielectric Strength        | 35.0 kV/mm      | 889 kV/in       | conditioned; IEC 60243-1 |
|                            | 40.0 kV/mm      | 1020 kV/in      | dry; IEC 60243-1         |
| Comparative Tracking Index | 600 V           | 600 V           | conditioned; IEC 60112   |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Descriptive Properties    | Value                          | Comments |
|---------------------------|--------------------------------|----------|
|                           | Cooling and climate control    |          |
| Electricals & Electronics | Cables & Tubes                 |          |
| Form                      | Granules                       |          |
| Industry & Consumer goods | Hydraulics & Pneumatics        |          |
|                           | Mechanical Engineering         |          |
|                           | Power transmission             |          |
| Processing                | Other Extrusion                |          |
| Product Attributes        | Flexible                       |          |
| Special Characteristics   | High impact or impact modified |          |

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