

EMS-Grivory Grivory® BS 23 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BS-23-PA6.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|-----------------|
| Density | 1.14 g/cc | 0.0412 lb/in ³ | ISO 1183 |
| Water Absorption | 9.0 % | 9.0 % | ISO 62 |
| Moisture Absorption | 3.00 % | 3.00 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0080 cm/cm | 0.0080 in/in | ISO 294-4, 2577 |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm | 0.011 in/in | ISO 294-4, 2577 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|---------------------------|
| Tensile Strength at Break | 70.0 MPa | 10200 psi | dry; ISO 527-1/-2 |
| Elongation at Break | 8.0 % | 8.0 % | dry; ISO 527-1/-2 |
| | >= 50 % | >= 50 % | conditioned; ISO 527-1/-2 |
| Tensile Modulus | 1.30 GPa | 189 ksi | conditioned; ISO 527-1/-2 |
| | 3.50 GPa | 508 ksi | dry; ISO 527-1/-2 |
| Charpy Impact Unnotched | NB | NB | dry; ISO 179/1eU |
| | NB | NB | conditioned; ISO 179/1eU |
| | 4.50 J/cm ² | 21.4 ft-lb/in ² | conditioned; ISO 179/1eU |
| | @Temperature 30.0 °C | @Temperature 86.0 °F | |
| Charpy Impact, Notched | 0.400 J/cm ² | 1.90 ft-lb/in ² | dry; ISO 179/1eA |
| | 2.00 J/cm ² | 9.52 ft-lb/in ² | conditioned; ISO 179/1eA |
| | 0.300 J/cm ² | 1.43 ft-lb/in ² | conditioned; ISO 179/1eU |
| | @Temperature 30.0 °C | @Temperature 86.0 °F | |
| | 0.400 J/cm ² | 1.90 ft-lb/in ² | dry; ISO 179/1eU |
| | @Temperature 30.0 °C | @Temperature 86.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--|--|---|
| CTE, linear, Parallel to Flow | 70.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 38.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 90.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 50.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | ISO 11359-1/-2 |
| Melting Point | 222 $^\circ\text{C}$ | 432 $^\circ\text{F}$ | 10 $^\circ\text{C}/\text{min}$; ISO 11357-1/-3 |
| Maximum Service Temperature, Air | 70.0 - 90.0 $^\circ\text{C}$ | 158 - 194 $^\circ\text{F}$ | long term; EMS |
| | 180 $^\circ\text{C}$ | 356 $^\circ\text{F}$ | short term; EMS |
| Deflection Temperature at 0.46 MPa (66 psi) | 185 $^\circ\text{C}$ | 365 $^\circ\text{F}$ | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 $^\circ\text{C}$ | 140 $^\circ\text{F}$ | 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 | 22.0 kV/mm | 559 kV/in | conditioned; IEC 60243-1 |
| | 24.0 kV/mm | 610 kV/in | dry; IEC 60243-1 |
| Comparative Tracking Index | 600 V | 600 V | conditioned; IEC 60112 |

| Descriptive Properties | Value | Comments |
|---------------------------|------------------------|----------|
| Automotive | Air intake systems | |
| | Interior | |
| | Powertrain and Chassis | |
| Electricals & Electronics | Electrical appliances | |
| Form | Granules | |
| Industry & Consumer goods | Housewares | |
| | Mechanical Engineering | |
| | Sports & Leisure | |
| Processing | Injection Molding | |

| Product Attributes Descriptive Properties | Improved flowability and demoulding Value | Comments |
|--|--|----------|
| | Nucleated | |

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