

## A. Schulman FORMION™ FI 232H 10% Mineral Reinforced Ionomer / Nylon Alloy

Category : Polymer , Thermoplastic , Ionomer , Nylon

### Material Notes:

Description Formion® FI 232H is an injection molding grade, 10% mineral reinforced Ionomer / Nylon alloy, which has been formulated for high scratch resistance, high stiffness and exceptional impact. Application Formion® FI 232H is targeted for non painted, mold-in-color, exterior or interior appearance applications. Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-FORMION-FI-232H-10-Mineral-Reinforced-Ionomer-Nylon-Alloy.php](http://www.lookpolymers.com/polymer_A-Schulman-FORMION-FI-232H-10-Mineral-Reinforced-Ionomer-Nylon-Alloy.php)

| Physical Properties   | Metric                | English               | Comments                      |
|-----------------------|-----------------------|-----------------------|-------------------------------|
| Specific Gravity      | 1.09 g/cc             | 1.09 g/cc             | ISO 1183/1                    |
| Linear Mold Shrinkage | 0.0010 - 0.0060 cm/cm | 0.0010 - 0.0060 in/in | 72 hr; ISO 294                |
|                       | @Thickness 3.20 mm    | @Thickness 0.126 in   |                               |
|                       | 0.0011 - 0.0070 cm/cm | 0.0011 - 0.0070 in/in | aged 48 hrs at 121°C; ISO 294 |
|                       | @Thickness 3.20 mm    | @Thickness 0.126 in   |                               |

| Mechanical Properties      | Metric                 | English                    | Comments         |
|----------------------------|------------------------|----------------------------|------------------|
| Tensile Strength, Yield    | 38.0 MPa               | 5510 psi                   | ISO 527          |
| Elongation at Break        | 325 %                  | 325 %                      | ISO 527          |
| Flexural Modulus           | 1.70 GPa               | 247 ksi                    | Tangent; ISO 178 |
| Izod Impact, Notched (ISO) | 65.0 kJ/m <sup>2</sup> | 30.9 ft-lb/in <sup>2</sup> | pb; ISO 180      |

| Thermal Properties                          | Metric             | English             | Comments |
|---------------------------------------------|--------------------|---------------------|----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 102 °C             | 216 °F              | ISO 75   |
|                                             | @Thickness 3.20 mm | @Thickness 0.126 in |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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