

Techmer ES HiFill[®] ASA 778 UV WT168

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Availability: North America Forms: Pellets Additive: UV Stabilizer Features: Good UV Resistance Appearance: White Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-ASA-778-UV-WT168.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|-----------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ASTM D792 |
| Water Absorption | 0.35 % | 0.35 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0070 cm/cm | 0.0070 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|-----------|
| Hardness, Rockwell R | 108 | 108 | ASTM D785 |
| Tensile Strength, Yield | 49.0 MPa | 7100 psi | ASTM D638 |
| Elongation at Break | 8.0 % | 8.0 % | ASTM D638 |
| Flexural Strength | 40.7 MPa | 5900 psi | ASTM D790 |
| Flexural Modulus | 2.14 GPa | 310 ksi | ASTM D790 |
| Izod Impact, Notched | 2.40 J/cm | 4.50 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 70.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 39.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 106 $\text{Å}^\circ\text{C}$ | 223 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 103 $\text{Å}^\circ\text{C}$ | 217 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 5.00e+13 ohm-cm | 5.00e+13 ohm-cm | ASTM D257 |

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