

## HiFill FR® ASA FR-2 WT

Techmer Polymer Modifiers - Acrylonitrile Styrene Acrylate

### General Information

#### General

|                   |                                  |
|-------------------|----------------------------------|
| Material Status   | • Commercial: Active             |
| Availability      | • North America                  |
| Additive          | • UV Stabilizer                  |
| Features          | • Flame Retardant • UV Resistant |
| Appearance        | • Colors Available • White       |
| Forms             | • Pellets                        |
| Processing Method | • Injection Molding              |

### Properties <sup>1</sup>

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.16          |          | ASTM D792   |
| Molding Shrinkage - Flow                                | 7.0E-3        | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.35          | %        | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                | 6100          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 7.0           | %        | ASTM D638   |
| Flexural Modulus                                        | 310000        | psi      | ASTM D790   |
| Flexural Strength                                       | 5600          | psi      | ASTM D790   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 0.90          | ft-lb/in | ASTM D256   |
| Hardness                                                | Nominal Value | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                             | 108           |          | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 223           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 217           | °F       | ASTM D648   |
| CLTE - Flow                                             | 3.9E-5        | in/in/°F | ASTM D696   |
| Electrical                                              | Nominal Value | Unit     | Test Method |
| Volume Resistivity                                      | 5.0E+13       | ohms-cm  | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 400           | V/mil    | ASTM D149   |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating                                            |               |          | UL 94       |
| 0.031 in                                                |               | V-2      |             |
| 0.12 in                                                 |               | V-0      |             |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

