

# HiFill® PC E IM

Polycarbonate  
Techmer Engineered Solutions

Message:

HiFill® PC E IM is a Polycarbonate (PC) product. It can be processed by extrusion and is available in North America.  
Characteristics include:  
Flame Rated  
Impact Modified  
Impact Resistant

| General Information                |                        |                   |             |
|------------------------------------|------------------------|-------------------|-------------|
| Additive                           | Impact Modifier        |                   |             |
| Features                           | High Impact Resistance |                   |             |
| Appearance                         | Colors Available       |                   |             |
| Forms                              | Pellets                |                   |             |
| Processing Method                  | Extrusion              |                   |             |
| Physical                           | Nominal Value          | Unit              | Test Method |
| Specific Gravity                   | 1.19                   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.60                   | %                 | ASTM D955   |
| Water Absorption (24 hr)           | 0.14                   | %                 | ASTM D570   |
| Hardness                           | Nominal Value          | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 114                    |                   | ASTM D785   |
| Mechanical                         | Nominal Value          | Unit              | Test Method |
| Tensile Strength (Yield)           | 58.6                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)         | 14                     | %                 | ASTM D638   |
| Flexural Modulus                   | 2480                   | MPa               | ASTM D790   |
| Flexural Strength                  | 82.7                   | MPa               | ASTM D790   |
| Impact                             | Nominal Value          | Unit              | Test Method |
| Notched Izod Impact                |                        |                   | ASTM D256   |
| -40°C, 3.18 mm                     | 270                    | J/m               |             |
| 23°C, 3.18 mm                      | 850                    | J/m               |             |
| 23°C, 6.35 mm                      | 290                    | J/m               |             |
| Thermal                            | Nominal Value          | Unit              | Test Method |
| Deflection Temperature Under Load  |                        |                   | ASTM D648   |
| 0.45 MPa, Unannealed               | 132                    | °C                |             |
| 1.8 MPa, Unannealed                | 127                    | °C                |             |
| CLTE - Flow                        | 6.8E-5                 | cm/cm/°C          | ASTM D696   |
| Electrical                         | Nominal Value          | Unit              | Test Method |
| Volume Resistivity                 | 1.0E+17                | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup>   | 15                     | kV/mm             | ASTM D149   |
| Flammability                       | Nominal Value          | Unit              | Test Method |

|                        |     |       |
|------------------------|-----|-------|
| Flame Rating (1.50 mm) | V-2 | UL 94 |
|------------------------|-----|-------|

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| NOTE |
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| 1. | Method A (Short-Time) |
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|--------------------------------------------|
| Recommended distributors for this material |
|--------------------------------------------|

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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