

# HiFill® POM HO UV

Acetal (POM) Homopolymer  
Techmer Engineered Solutions

Message:

HiFill® POM HO UV is an Acetal (POM) Homopolymer product. It can be processed by injection molding and is available in North America. Characteristics include:  
Homopolymer  
UV Stabilized

| General Information                       |                   |                   |             |
|-------------------------------------------|-------------------|-------------------|-------------|
| Additive                                  | UV Stabilizer     |                   |             |
| Features                                  | Homopolymer       |                   |             |
| Appearance                                | Colors Available  |                   |             |
| Forms                                     | Pellets           |                   |             |
| Processing Method                         | Injection Molding |                   |             |
| Physical                                  | Nominal Value     | Unit              | Test Method |
| Specific Gravity                          | 1.42              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/1.05 kg) | 7.0               | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.18 mm)        | 1.8               | %                 | ASTM D955   |
| Water Absorption (24 hr)                  | 0.15              | %                 | ASTM D570   |
| Hardness                                  | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 118               |                   | ASTM D785   |
| Mechanical                                | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield)                  | 64.1              | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 12                | %                 | ASTM D638   |
| Flexural Modulus                          | 3240              | MPa               | ASTM D790   |
| Flexural Strength                         | 82.7              | MPa               | ASTM D790   |
| Impact                                    | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)       | 80                | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load         |                   |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 168               | °C                |             |
| 1.8 MPa, Unannealed                       | 104               | °C                |             |
| CLTE - Flow                               | 9.0E-5            | cm/cm/°C          | ASTM D696   |
| Injection                                 | Nominal Value     | Unit              |             |
| Drying Temperature                        | 71.1              | °C                |             |
| Drying Time                               | 2.0               | hr                |             |
| Suggested Max Moisture                    | 0.20              | %                 |             |
| Rear Temperature                          | 177 to 193        | °C                |             |
| Middle Temperature                        | 188 to 210        | °C                |             |

|                        |                |     |
|------------------------|----------------|-----|
| Front Temperature      | 182 to 199     | °C  |
| Nozzle Temperature     | 177 to 204     | °C  |
| Processing (Melt) Temp | 193 to 216     | °C  |
| Mold Temperature       | 82.2 to 121    | °C  |
| Injection Rate         | Moderate       |     |
| Back Pressure          | 0.345 to 0.689 | MPa |
| Screw Speed            | 70 to 80       | rpm |

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### 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

