

# HiFill® TPX-PMP-03032

Polymethylpentene  
Techmer Engineered Solutions

Message:  
HiFill® TPX-PMP-03032 is a Polymethylpentene (PMP) product. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

| General Information                      |                   |                   |             |
|------------------------------------------|-------------------|-------------------|-------------|
| Forms                                    | Pellets           |                   |             |
| Processing Method                        | Injection Molding |                   |             |
| Physical                                 | Nominal Value     | Unit              | Test Method |
| Specific Gravity                         | 0.828             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (260°C/5.0 kg) | 25                | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.18 mm)       | 1.5               | %                 | ASTM D955   |
| Water Absorption (24 hr)                 | 0.010             | %                 | ASTM D570   |
| Mechanical                               | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield)                 | 29.6              | MPa               | ASTM D638   |
| Tensile Elongation (Break)               | 12                | %                 | ASTM D638   |
| Flexural Modulus                         | 1600              | MPa               | ASTM D790   |
| Flexural Strength (Yield)                | 24.8              | MPa               | ASTM D790   |
| Impact                                   | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)            | 21                | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)          | 210               | J/m               | ASTM D256   |
| Thermal                                  | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load        |                   |                   | ASTM D648   |
| 0.45 MPa, Unannealed                     | 127               | °C                |             |
| 1.8 MPa, Unannealed                      | 100               | °C                |             |
| Melting Temperature                      | 232               | °C                | ASTM D785   |
| CLTE - Flow                              | 2.2E-5            | cm/cm/°C          | ASTM D696   |
| Electrical                               | Nominal Value     | Unit              | Test Method |
| Volume Resistivity                       | 1.0E+16           | ohms · cm         | ASTM D257   |
| Flammability                             | Nominal Value     | Unit              | Test Method |
| Flame Rating                             | HB                |                   | UL 94       |
| Additional Information                   | Nominal Value     |                   |             |

TPCI #

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