

# INSTRUC PFAGF25

Perfluoroalkoxy

Infinity LTL Engineered Compounds

Message:

INSTRUC PFAGF25 is a Perfluoroalkoxy (PFA) product filled with 25% glass fiber. It is available in North America. Primary characteristic: flame rated.

| General Information                                     |                                  |                   |             |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass Fiber,25% Filler by Weight |                   |             |
| Physical  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity  | 2.21                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                      | 0.30 to 0.50                     | %                 |             |
| Water Absorption (24 hr)                                | 0.035                            | %                 | ASTM D570   |
| Mechanical  | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Break)                                | 41.4                             | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 4.0 to 6.0                       | %                 | ASTM D638   |
| Flexural Modulus  | 4830                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 75.8                             | MPa               | ASTM D790   |
| Impact  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact                                     | 320                              | J/m               | ASTM D256   |
| Thermal   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 149                              | °C                | ASTM D648   |
| Flammability  | Nominal Value                    |                   |             |
| Flame Rating (1.50 mm)                                  | V-0                              |                   |             |
| Injection   | Nominal Value                    | Unit              |             |
| Drying Temperature                                      | 121                              | °C                |             |
| Drying Time   | 2.0 to 4.0                       | hr                |             |
| Processing (Melt) Temp                                  | 343 to 399                       | °C                |             |
| Mold Temperature  | 121 to 232                       | °C                |             |
| Back Pressure   | 0.345 to 0.689                   | MPa               |             |
| Screw Speed   | 40 to 70                         | rpm               |             |

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