

# API II 392

## General Purpose Polystyrene

API II, Inc.

### Message:

Product Description:

API II 392 is a general purpose polystyrene produced in pellet form for injection molding. It has excellent clarity and high flow.

Application:

Used in the manufacture of containers, housewares, toys and medical applications. Complies with FDA regulation 21 CFR 177.1640.

| General Information                                   |                          |                   |             |
|---|--------------------------|-------------------|-------------|
| Features  | High liquidity           |                   |             |
|   | Definition, high         |                   |             |
| Uses  | Household goods          |                   |             |
|   | Container                |                   |             |
|   | Toys                     |                   |             |
|   | Medical/nursing supplies |                   |             |
| Agency Ratings  | FDA 21 CFR 177.1640      |                   |             |
| Forms   | Particle                 |                   |             |
| Processing Method                                     | Injection molding        |                   |             |
| Physical  | Nominal Value            | Unit              | Test Method |
| Specific Gravity                                      | 1.04                     | g/cm <sup>3</sup> | ASTM D892   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)              | 12                       | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value            | Unit              | Test Method |
| Rockwell Hardness (M-Scale)                           | 76                       |                   | ASTM D785   |
| Mechanical  | Nominal Value            | Unit              | Test Method |
| Tensile Modulus                                       | 2900                     | MPa               | ASTM D638   |
| Tensile Strength (Break)                              | 39.3                     | MPa               | ASTM D638   |
| Tensile Elongation (Break)                            | 1.0                      | %                 | ASTM D638   |
| Impact  | Nominal Value            | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                         | 21                       | J/m               | ASTM D256   |
| Thermal   | Nominal Value            | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 87.8                     | °C                | ASTM D648   |
| Vicat Softening Temperature                           | 97.8                     | °C                | ASTM D1525  |

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