

# Shuman PS 881

Medium Impact Polystyrene

Shuman Plastics, Inc.

## Message:

POLYSTYRENE MEDIUM IMPACT 881 GREY  
OFFERS THIS COMBINATION OF PROPERTIES:  
EASY PROCESSABILITY, GOOD GLOSS, GOOD SURFACE APPEARANCE

| General Information |  |
|---------------------|--|
| Features            | Good Impact Resistance<br>Good Processability<br>Good Surface Finish<br>Medium Gloss |
| Appearance          | Grey   |
| Forms               | Pellets  |
| Processing Method   | Extrusion<br>Injection Molding   |

| Physical  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity  | 1.05          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                               | 4.0 to 16     | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (L-Scale)                             | 60            |                   | ASTM D785   |
| Mechanical  | Nominal Value | Unit              | Test Method |
| Tensile Strength  | 35.9          | MPa               | ASTM D638   |
| Impact  | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 48 to 69      | J/m               | ASTM D256   |
| Thermal   | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 87.8          | °C                | ASTM D648   |
| Vicat Softening Temperature                             | 98.9          | °C                | ASTM D1525  |
| Injection   | Nominal Value | Unit              | Test Method |
| Processing (Melt) Temp                                  | 204 to 227    | °C                |             |
| Extrusion   | Nominal Value | Unit              | Test Method |
| Melt Temperature  | 204 to 227    | °C                |             |

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