

## Polyman (PS) 604

General Purpose Polystyrene

LyondellBasell Industries

Engineering Plastics

### Product Description

high impact PS - compound

### General

|                   |                          |
|-------------------|--------------------------|
| Features          | • High Impact Resistance |
| Processing Method | • Injection Molding      |

| Physical                                        | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
|-------------------------------------------------|---------------------------|---------------------------|-----------------|
| Density                                         | 1.03 g/cm <sup>3</sup>    | 1.03 g/cm <sup>3</sup>    | ISO 1183/A      |
| Melt Volume-Flow Rate (MVR) (200°C/5.0 Kg)      | 10 cm <sup>3</sup> /10min | 10 cm <sup>3</sup> /10min | ISO 1133        |
| Mechanical                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Tensile Modulus                                 | 319000 psi                | 2200 MPa                  | ISO 527-1/1A/1  |
| Tensile Stress (Yield)                          | 3630 psi                  | 25.0 MPa                  | ISO 527-2/1A/50 |
| Tensile Strain (Yield)                          | 3.0 %                     | 3.0 %                     | ISO 527-2/1A/50 |
| Impact                                          | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Charpy Notched Impact Strength (73°F (23°C))    | 2.9 ft·lb/in <sup>2</sup> | 6.0 kJ/m <sup>2</sup>     | ISO 179/1eA     |
| Charpy Unnotched Impact Strength<br>73°F (23°C) | 31 ft·lb/in <sup>2</sup>  | 65 kJ/m <sup>2</sup>      | ISO 179/1eU     |
| Thermal                                         | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Vicat Softening Temperature                     |                           |                           |                 |
| --                                              | 192 °F                    | 89.0 °C                   | ISO 306/B50     |
| --                                              | 207 °F                    | 97.0 °C                   | ISO 306/A120    |
| Electrical                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Surface Resistivity                             | > 1.0E+15 ohms            | > 1.0E+15 ohms            | IEC 60093       |
| Volume Resistivity                              | > 1.0E+13 ohms·m          | > 1.0E+13 ohms·m          | IEC 62631-3-1   |

### Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

### Notes

These are typical property values not to be construed as specification limits.

