

## PES 3600

| Property                                  | ASTM    | Typical Values <sup>(1)</sup> |                      |                   |                      |
|-------------------------------------------|---------|-------------------------------|----------------------|-------------------|----------------------|
|                                           | Test    | U.S. Customary Units          |                      | SI Units          |                      |
|                                           | Method  | Value                         | Units                | Value             | Units                |
| General                                   |         |                               |                      |                   |                      |
| Specific Gravity                          | D 792   | 1.37                          |                      | 1.37              |                      |
| Water Absorption, 24 hours                | D 570   | 0.56                          | %                    | 0.56              | %                    |
| Melt Flow Rate (380°C, 2.16 kg)           | D 1238  | 71-85                         | g/10 min.            | 71-85             | g/10 min.            |
| Mechanical                                |         |                               |                      |                   |                      |
| Tensile Strength                          | D 638   | 12.9                          | kpsi                 | 90                | MPa                  |
| Tensile Modulus                           | D 638   | 358                           | kpsi                 | 2.5               | GPa                  |
| Tensile Elongation at Break               | D 638   | 25-75                         | %                    | 25-75             | %                    |
| Flexural Strength                         | D 790   | 16.5                          | kpsi                 | 115               | MPa                  |
| Flexural Modulus                          | D 790   | 358                           | kpsi                 | 2.5               | GPa                  |
| Impact Strength- Notched Izod             | D 256   | 1.0                           | ft-lb/in             | 55                | J/m                  |
| Thermal                                   |         |                               |                      |                   |                      |
| DTUL at 264 psi (1.82 MPa) <sup>(2)</sup> | D 648   | 383                           | °F                   | 200               | °C                   |
| Glass Transition Temp.                    | D 3482  | 433                           | °F                   | 223               | °C                   |
| Continuous Use Temperature <sup>(3)</sup> | UL-746B | 356                           | °F                   | 180               | °C                   |
| Coefficient of Linear Thermal Expansion   | D 696   | 32                            | 10 <sup>-6</sup> /°F | 57                | 10 <sup>-6</sup> /°C |
| Electrical                                |         |                               |                      |                   |                      |
| Dielectric Strength                       | D 149   | 405                           | V/mil                | 16                | kV/mm                |
| Dielectric Constant @ 60 Hz               | D 150   | 3.2                           |                      | 3.2               |                      |
| Dissipation Factor @ 60 Hz                | D 150   | 0.004                         |                      | 0.004             |                      |
| Volume Resistivity                        | D 257   | >10 <sup>16</sup>             | ohm-cm               | >10 <sup>16</sup> | ohm-cm               |
| Surface Resistivity                       | D 257   | >10 <sup>14</sup>             | ohm/sq               | >10 <sup>14</sup> | ohm/sq               |
| Comparative Tracking Index                | D 3638  | 150                           | V                    | 150               | V                    |
| Arc Resistance                            | D 495   | 50                            | sec                  | 50                | sec                  |
| Flammability                              |         |                               |                      |                   |                      |
| Flammability at 3.2 mm (0.126")           | UL 94   | V-0                           |                      | V-0               |                      |
| Limiting Oxygen Index                     | D 2863  | 40                            | %                    | 40                | %                    |

<sup>(1)</sup> These properties has been determined from injection molded test specimen under ideal processing parameters and conditioned at 23+/- 2°C and 50%RH .

<sup>(2)</sup> Measured from annealed specimen

<sup>(2)</sup> Expected

### Approvals

NSF 51, 61 Certified

USP Class VI approved

EPA TSCA Registered

## Product Safety and Emergency Service

For product safety information or a Material Safety Data Sheet on a product of Solvay Advanced Polymers

**1 (800) 621-4557**

**1 (770) 772-8880 outside of U.S.**

For information or help in an emergency such as a spill, leak, fire or explosion, call day or night:

Emergency Health Information

**1 (800) 621-4590**

**1 (770) 772-5177 outside of U.S.**

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**collect calls accepted**

## For Additional Information

Technical Service

**1 (800) 621-4557**

Customer Service

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