

Styrolution® PS 165L  
PS

INEOS Styrolution

| Rheological properties      | Value | Unit                   | Test Standard   |
|-----------------------------|-------|------------------------|-----------------|
| <b>ISO Data</b>             |       |                        |                 |
| Melt volume-flow rate, MVR  | 3.4   | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                 | 200   | °C                     | -               |
| Load                        | 5     | kg                     | -               |
| Molding shrinkage, parallel | 0.5   | %                      | ISO 294-4, 2577 |

| Mechanical Properties           | Value | Unit              | Test Standard |
|---------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                 |       |                   |               |
| Tensile Modulus                 | 3300  | MPa               | ISO 527       |
| Yield stress                    | 52    | MPa               | ISO 527       |
| Strain at Break                 | 2     | %                 | ISO 527       |
| Tensile Creep Modulus, 1h       | 3300  | MPa               | ISO 899-1     |
| Tensile Creep Modulus, 1000h    | 2600  | MPa               | ISO 899-1     |
| Impact Strength (Charpy), +23°C | 25    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Ball Indentation Hardness       | 150   | MPa               | ISO 2039-1    |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Coeff. of Linear Therm. Expansion, parallel | 80    | E-6/K | ISO 11359-1/-2 |
| <b>ASTM Data</b>                            |       |       |                |
| Vicat Temperature                           | 97    | °C    | ASTM D 1525    |

| Electrical Properties        | Value | Unit  | Test Standard |
|------------------------------|-------|-------|---------------|
| <b>ISO Data</b>              |       |       |               |
| Relative permittivity, 100Hz | 2.5   | -     | IEC 62631-2-1 |
| Volume Resistivity           | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface Resistivity          | 1E14  | Ohm   | IEC 62631-3-2 |

| Other Properties    | Value | Unit              | Test Standard  |
|---------------------|-------|-------------------|----------------|
| <b>ISO Data</b>     |       |                   |                |
| Water Absorption    | 0.1   | %                 | Sim. to ISO 62 |
| Humidity absorption | 0.1   | %                 | Sim. to ISO 62 |
| Density             | 1040  | kg/m <sup>3</sup> | ISO 1183       |

## Characteristics

## Processing

Injection Molding

## Delivery form

Pellets

## Features

Blending Resin

## Applications

General Purpose, Refrigeration