

**Technical Data Sheet**

## Asi Polystyrene PS 1010-01

General Purpose Polystyrene  
LyondellBasell Industries  
Distribution

**Product Description**

PS 1010-01 is a general purpose polystyrene produced in pellet form for injection molding. PS 1010 has excellent clarity and easy flow.

**General**

|                   |                            |
|-------------------|----------------------------|
| Material Status   | • Commercial: Active       |
| Availability      | • North America            |
| Features          | • Good Flow • High Clarity |
| Uses              | • General Purpose          |
| Forms             | • Pellets                  |
| Processing Method | • Injection Molding        |

| Physical                                                         | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|------------------------------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                                       | 1.05                    | 1.05 g/cm <sup>3</sup> |             |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)                         | 8.0 g/10 min            | 8.0 g/10 min           | ASTM D1238  |
| Mechanical                                                       | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus                                                  | 417000 psi              | 2880 MPa               | ASTM D638   |
| Tensile Strength (Break)                                         | 6300 psi                | 43.4 MPa               | ASTM D638   |
| Tensile Elongation (Break)                                       | 1.0 %                   | 1.0 %                  | ASTM D638   |
| Impact                                                           | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                                              | 0.30 ft-lb/in           | 16 J/m                 | ASTM D256   |
| Hardness                                                         | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (L-Scale)                                      | 74                      | 74                     | ASTM D785   |
| Thermal                                                          | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Annealed | 190 °F                  | 87.8 °C                | ASTM D648   |
| Vicat Softening Temperature                                      | 209 °F                  | 98.3 °C                | ASTM D1525  |

**Notes**

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

**Processing Techniques**

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

**Product Storage and Handling**

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

**Company Information**

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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