

# Styrolution PS 495N

High Impact Polystyrene  
INEOS Styrolution Group GmbH

Message:

Styrolution PS 495N is an impact resistant polystyrene with a good balance of toughness, high flow, heat resistance and high gloss.

| General Information                        |                        |                        |             |
|--------------------------------------------|------------------------|------------------------|-------------|
| Features                                   | Good Toughness         |                        |             |
|                                            | High Flow              |                        |             |
|                                            | High Gloss             |                        |             |
|                                            | High Impact Resistance |                        |             |
|                                            | Medium Heat Resistance |                        |             |
| Uses                                       | Business Equipment     |                        |             |
|                                            | Tanks                  |                        |             |
| Forms                                      | Granules               |                        |             |
| Processing Method                          | Injection Molding      |                        |             |
| Physical                                   | Nominal Value          | Unit                   | Test Method |
| Density                                    | 1.04                   | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (200°C/5.0 kg) | 9.50                   | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage                          | 0.40 to 0.70           | %                      | ISO 294-4   |
| Water Absorption                           |                        |                        | ISO 62      |
| Saturation, 23°C                           | < 0.10                 | %                      |             |
| Equilibrium, 23°C, 50% RH                  | < 0.10                 | %                      |             |
| Hardness                                   | Nominal Value          | Unit                   | Test Method |
| Ball Indentation Hardness                  | 74.0                   | MPa                    | ISO 2039-1  |
| Mechanical                                 | Nominal Value          | Unit                   | Test Method |
| Tensile Modulus                            | 2000                   | MPa                    | ISO 527-2   |
| Tensile Stress (Yield, 23°C)               | 26.0                   | MPa                    | ISO 527-2   |
| Tensile Strain (Yield, 23°C)               | 1.5                    | %                      | ISO 527-2   |
| Flexural Modulus                           | 2100                   | MPa                    | ISO 178     |
| Flexural Stress                            | 40.0                   | MPa                    | ISO 178     |
| Films                                      | Nominal Value          | Unit                   | Test Method |
| Tensile Elongation - MD (Break)            | 40                     | %                      |             |
| Impact                                     | Nominal Value          | Unit                   | Test Method |
| Charpy Notched Impact Strength (23°C)      | 17                     | kJ/m <sup>2</sup>      | ISO 179     |
| Thermal                                    | Nominal Value          | Unit                   | Test Method |
| Heat Deflection Temperature                |                        |                        |             |

| 0.45 MPa, Annealed           | 89.0                               | °C       | ISO 75-2/B              |
|------------------------------|------------------------------------|----------|-------------------------|
| 1.8 MPa, Annealed            | 85.0                               | °C       | ISO 75-2/A              |
| Vicat Softening Temperature  |                                    |          |                         |
| --                           | 89.0                               | °C       | ASTM D1525 <sup>1</sup> |
| --                           | 98.0                               | °C       | ISO 306/A50             |
| CLTE - Flow                  | 8.0E-5                             | cm/cm/°C | ISO 11359-2             |
| Thermal Conductivity         | 0.17                               | W/m/K    | DIN 52612               |
| Electrical                   | Nominal Value                      | Unit     | Test Method             |
| Surface Resistivity          | > 1.0E+13                          | ohms     | IEC 60093               |
| Volume Resistivity           | > 1.0E+18                          | ohms·cm  | IEC 60093               |
| Dielectric Constant (100 Hz) | 2.50                               |          | IEC 60250               |
| Dissipation Factor           |                                    |          | IEC 60250               |
| 100 Hz                       | 4.0E-4                             |          |                         |
| 1 MHz                        | 4.0E-4                             |          |                         |
| Flammability                 | Nominal Value                      | Unit     | Test Method             |
| Flame Rating                 | HB                                 |          | UL 94                   |
| Injection                    | Nominal Value                      | Unit     |                         |
| Processing (Melt) Temp       | 180 to 260                         | °C       |                         |
| NOTE                         |                                    |          |                         |
| 1.                           | Rate B (120°C/h), Loading 2 (50 N) |          |                         |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

