# Luran® S 757G

Acrylonitrile Styrene Acrylate

Styrolution

## Message:

Luran S 757G provides the best flowability within the product line and is therfore in particular suitable for demanding injection molding geometries.

| General Information | | |
|---|---|---|
| UL YellowCard | E108538-100840220 | E108538-100840221 |
| Features | Good Processability<br>High Flow | |
| Uses | Appliances<br>Household Goods<br>Sanitary Products | |
| Forms | Pellets | |
| Processing Method | Injection Molding | |
| Multi-Point Data | Creep Modulus vs. Time (ISO 11403-1)<br>Isochronous Stress vs. Strain (ISO 11403-1)<br>Isothermal Stress vs. Strain (ISO 11403-1)<br>Secant Modulus vs. Strain (ISO 11403-1)<br>Viscosity vs. Shear Rate (ISO 11403-2) | |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.07 | g/cm³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 25.0 | cm³/10min | ISO 1133 |
| Molding Shrinkage | 0.50 to 0.90 | % | ISO 294-4 |
| Water Absorption | | | ISO 62 |
| Saturation, 23°C | 1.7 | % | |
| Equilibrium, 23°C, 50% RH | 0.35 | % | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Ball Indentation Hardness | 90.0 | MPa | ISO 2039-1 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 2400 | MPa | ISO 527-2 |
| Tensile Stress (Yield, 23°C) | 51.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield, 23°C) | 3.3 | % | ISO 527-2 |
| Tensile Creep Modulus | | | ISO 899-1 |
| 1 hr | 2200 | MPa | |
| 1000 hr | 1650 | MPa | |

| | | | |
|---|---|---|---|
| Flexural Stress | 75.0 | MPa | ISO 178 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Elongation - MD (Break) | 8.0 | % | |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179 |
| -30°C | 3.0 | $kJ/m^2$ | |
| 23°C | 12 | $kJ/m^2$ | |
| Notched Izod Impact Strength | | | ISO 180/A |
| -30°C | 4.0 | $kJ/m^2$ | |
| 23°C | 11 | $kJ/m^2$ | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature | | | |
| 0.45 MPa, Annealed | 101 | °C | ISO 75-2/B |
| 1.8 MPa, Annealed | 96.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 105 | °C | ISO 306/A50 |
| -- | 97.0 | °C | ISO 306/B50 |
| CLTE - Flow | 8.0E-5 to 1.1E-4 | 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+14 | ohms·cm | IEC 60093 |
| Dielectric Constant (100 Hz) | 3.40 | | IEC 60250 |
| Dissipation Factor | | | IEC 60250 |
| 100 Hz | 0.010 | | |
| 1 MHz | 0.025 | | |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 80.0 | °C | |
| Drying Time | 2.0 to 4.0 | hr | |
| Processing (Melt) Temp | 240 to 280 | °C | |
| Mold Temperature | 60.0 | °C | |
| Injection Velocity | 200 | mm/sec | |



Recommended distributors for this material

## 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


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