AsahiKASEI

# Leona™ 9400S

## Asahi Kasei Corporation - Polyamide 66/6 Copolymer

### General Information

| General | | | |
|---|---|---|---|
| Features | • High Impact Resistance | • High Molecular Weight | • High Strength |
| Uses | • Film<br>• Housings | • Industrial Applications<br>• Structural Parts | |
| Part Marking Code (ISO11469) (ISO 11469) | • >PA66/6< | | |

### ASTM & ISO Properties [1]

| Physical | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Density / Specific Gravity | 1.14 | -- | g/cm³ | ASTM D792<br>ISO 1183 |
| Water Absorption | | | | ISO 62 |
| Equilibrium, 23°C, 50% RH | -- | 2.8 | % | |
| **Mechanical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Tensile Modulus (23°C) | 2700 | 700 | MPa | ISO 527-1 |
| Tensile Stress | | | | |
| Yield, 23°C | 80.0 | 40.0 | MPa | ISO 527-2 |
| -- | 79.0 | 44.0 | MPa | ASTM D638 |
| Tensile Strain | | | | |
| Yield, 23°C | 4.0 | 22 | % | ISO 527-2 |
| Break | 60 | 260 | % | ASTM D638 |
| Break, 23°C | -- | > 100 | % | ISO 527-2 |
| Flexural Modulus | | | | |
| -- | 2600 | 800 | MPa | ASTM D790 |
| 23°C | 2300 | 700 | MPa | ISO 178 |
| Flexural Strength | | | | |
| -- | 108 | 44.0 | MPa | ASTM D790 |
| 23°C | 97.0 | 30.0 | MPa | ISO 178 |
| **Impact** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | 7.0 | 41 | kJ/m² | ISO 179 |
| Charpy Unnotched Impact Strength | No Break | No Break | | ISO 179 |
| Notched Izod Impact | 54 | 270 | J/m | ASTM D256 |

# Leona™ 9400S

## Asahi Kasei Corporation - Polyamide 66/6 Copolymer

| Hardness | Dry | Conditioned | Unit | Test Method |
|---|---|---|---|---|
| Rockwell Hardness | | | | |
| M-Scale | 75 | -- | | ASTM D785 |
| M-Scale | 80 | -- | | ISO 2039-2 |
| R-Scale | 120 | -- | | ISO 2039-2 |
| **Thermal** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | | |
| 0.45 MPa, Unannealed | 190 | -- | °C | ASTM D648 |
| 0.45 MPa, Unannealed | 165 | -- | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 60.0 | -- | °C | ISO 75-2/A |
| **Electrical** | **Dry** | **Conditioned** | **Unit** | **Test Method** |
| Surface Resistivity | 1.0E+14 | -- | ohms | ASTM D257<br>IEC 60093 |
| Volume Resistivity | | | | |
| -- | 1.0E+15 | -- | ohms·cm | ASTM D257 |
| 23°C | 1.0E+15 | -- | ohms·cm | IEC 60093 |
| Dielectric Strength | 20 | -- | kV/mm | ASTM D149<br>IEC 60243-1 |

**Notes**

[1] Typical properties: these are not to be construed as specifications.