

LEONA™ SG115

Leona SG115 is a 50% Glass-fiber reinforced polyamide with excellent mechanical strength and rigidity even at wet condition

| | Property | Unit | Test Method | Test Condition | Leona SG115 |
|-----------------------|--|---------------------|--------------------|-----------------------|--------------------|
| Physical | Density | g/cm ³ | ISO 1183 | DRY | 1.59 |
| | Water Absorption at Equilibrium | % | Asahi Method | WET | 1.3 |
| | Shrinkage, 2mmt at Parallel direction | % | Asahi Method | 23°C, 50RH | 0.2-0.5 |
| | Shrinkage, 2mmt at Perpendicular direction | % | Asahi Method | 23°C, 50RH | 0.2-0.5 |
| | Filler | % | | | 50 |
| Mechanical | Tensile Stress (Break) | MPa | ISO 527 | DRY | 280 |
| | | | | WET | 240 |
| | Tensile Strain (Break) | % | ISO 527 | DRY | 2.5 |
| | | | | WET | 2.5 |
| | Tensile Modulus | MPa | ISO 527 | DRY | 19000 |
| | | | | WET | 18000 |
| | Flexural Strength | MPa | ISO 178 | DRY | 410 |
| | | | | WET | 360 |
| | Flexural Modulus | MPa | ISO 178 | DRY | 17000 |
| | | | | WET | 17000 |
| CHARPY Impact (Notch) | KJ/m ² | ISO 179 | DRY | 20 | |
| | | | WET | 19 | |
| Thermal | Deflection Temperature Under Load | °C | ISO 75 | 1.80MPa | 240 |
| | | | | 0.45MPa | 250 |
| | CLTE (Flow direction) | x10 ⁻⁵ K | ASTM D696 | DRY | 1.2 |

Disclaimer

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage. Data listed above may subjected to changes due to improvement in properties.

Equilibrium Moisture Content = at 23°C, 50% Relative Humidity

Dry = Value of test specimen as in DAM conditions (dry as moulded)

Wet = Value of test specimen with equilibrium moisture content at 23°C, 50% Relative Humidity