**Technical Data Sheet**

# SCHULARENE™ N3102

Polylactic Acid
Custom Powders

| Product Description |
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| Schularene™ N3102 is a standard purpose PLA with medium flow.<br>As powder it's used for laminating adhesive in textile or automotive applications.<br>We recommend for most applications pre-drying before processing. |

| General | | |
|---|---|---|
| Features | • General Purpose<br>• Good Adhesion | • Medium Flow<br>• Renewable Resource Content |
| Uses | • Automotive Applications | • Textile Applications |
| Appearance | • Natural Color | |
| Forms | • Powder | |
| Processing Method | • Coating | • Laminating |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.24 g/cm³ | 1.24 g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (210°C/2.16 kg) | 16 g/10 min | 16 g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 508000 psi | 3500 MPa | ASTM D638 |
| Tensile Strength | > 7250 psi | > 50.0 MPa | ASTM D638 |
| Tensile Elongation (Break) | > 3.0 % | > 3.0 % | ASTM D638 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Charpy Notched Impact Strength (73°F (23°C)) | < 2.4 ft·lb/in² | < 5.0 kJ/m² | ISO 179 |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Glass Transition Temperature | 140 to 145 °F | 60.0 to 63.0 °C | DSC |
| Peak Melting Temperature | 338 to 356 °F | 170 to 180 °C | DSC |

### Notes

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