Technical Data Sheet

Schularene N3103

Polylactic Acid
LyondellBasell Industries
Custom Powders

Product Description
Schularene™ N3103 is a high heat PLA. This material achieves a higher heat deflection temperature as standard PLA. The heat performance is similar to PS, PP and ABS. As powder it's used for laminating adhesive in textile or automotive applications. We recommend for most applications pre-drying before processing.

General			
Features	• Good Adhesion	• High Heat Resistance	• 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)	30 g/10 min	30 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	435000 psi	3000 MPa	ASTM D638
Tensile Strength	6530 psi	45.0 MPa	ASTM D638
Tensile Strain (Break)	5.0 %	5.0 %	ISO 527-2
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**
Deflection Temperature Under Load			ISO 75-2/B
66 Psi (0.45 Mpa), Unannealed	221 °F	105 °C	
Peak Melting Temperature	374 to 428 °F	190 to 220 °C	DSC

Notes

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