

SCHULARENE™ N3103

Polylactic Acid
A. Schulman Europe

Message:

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 Information	
Features	Updatable resources
	Good adhesion
	Heat resistance, high
Uses	Textile applications
	Application in Automobile Field
Appearance	Natural color
Forms	Powder
Processing Method	Lamination method
	Coating

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ASTM D638
Tensile Strength	45.0	MPa	ASTM D638
Tensile Strain (Break)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	105	°C	ISO 75-2/B
Peak Melting Temperature	190 - 220	°C	DSC

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Recommended distributors for this material

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