SABER*Flex*-1102™

Technical Data Sheet

Product Description	**SABER***Flex*-1102™ is a biobased, enhanced-compostability polylactide alloy with unmatched mechanical properties and moldability. Suitable for extrusion, injection molding, and compounding applications.
Form	Pellets
Appearance	light-colored pellets
Key Features	**Impact Resistant** — Superior to neat PLA with balanced stiffness • Temperature Stable - Suitable for ambient applications up to 55°C • Extended Elongation - 200% • Marine Degradable – Enhanced breakdown in ocean environments • **Non-toxic** — Safe degradation products
Typical Applications	Rigid packaging and containers • Durable consumer goods • Agricultural products (mulch films, plant pots) • 3D printing filaments • Single-use items requiring enhanced durability

MATERIAL PROPERTIES

Property	Test Method	Unit	Value
Density	ASTM D792	g/cm^3	1.1-1.2
Melt Flow Rate (190 °C, 2.16 kg)	ASTM D1238	g/10 min	8-10
Melting Point	ASTM D3418	°C	170-180
Yield Stress	ASTM D638	MPa	45-52
Strain at Break	ASTM D638	%	350-400
Flexural Modulus	ASTM D790	MPa	1500-1900
Flexural Strength	ASTM D790	MPa	62-68
Izod Impact Strength (23 °C)	ASTM D256	J/m	880-950

PROCESS INFORMATION — RECOMMENDED PROCESSING TEMPERATURE

Zone	Temperature (°C)/RPM
Feed Throat	50
Feed Zone	190
Compression Section	240
Metering Zone	260
Nozzle	260
Mold Temp	80-110
Screw speed (RPM)	150-200
Drying (hrs/°C)	3/80
Mold Shrinkage	2-3 %

PACKAGING & LOGISTICS

Item	Details
Standard pack size	25 kg / 55 lb
Handling	Handle to prevent contamination and moisture uptake.

HEALTH & SAFETY

Item	Details
Personal precautions	Avoid dust; avoid skin/eye contact.
SDS	Refer to product Safety Data Sheet (SDS).

Specifications and typical properties are provided for general guidance and are not to be construed as purchase specifications. Always consult the product SDS prior to use.

SABER*Flex-1102*™ *is a trademark of SABER Chemical.*

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