

Jabil A00032-0940 Resin

PRODUCT DESCRIPTION

Jabil's A00032-0940 is a home compostable resin designed specifically for injection molding. Made with sustainable and environmentally friendly materials, our resin is the perfect solution for companies looking to reduce their environmental impact while still delivering high-quality packaging products.

Jabil's home compostable resin is designed with high heat deflection temperature (HDT), which means it can withstand high temperatures without deforming or losing its shape. This makes it ideal for injection molded products and packaging that need to maintain their shape and structure, even when exposed to heat.

The A00032-0940 resin is also home compostable, meaning it can break down into organic matter in a home composting environment. This feature is essential for companies looking to reduce their waste and minimize their environmental impact. By choosing our home compostable resin, you can ensure that your injection molded products and packaging are not contributing to the plastic waste crisis.

PROPERTIES

MECHANICAL PROPERTIES¹

	Test Condition	Typical Values	Method
Tensile Modulus (MPa)	Ambient	11900	ASTM D638, Type I
Tensile Yield Strength (Mpa)	Ambient	29	ASTM D638, Type I
Tensile Elongation at Break (%)	Ambient	2.7	ASTM D638, Type I
Ultimate Tensile Strength (MPa)	Ambient	47	ASTM D638, Type I
Izod Impact, notched (kJ/m ²)	Ambient	4.25	ASTM D256

¹ Testing conducted on bars molded in a 100°C mold for 60s. Typical values are for reference only.

THERMAL PROPERTIES

	Test Condition	Typical Values	Method
Heat Deflection Temperature (°C)	0.455 Mpa	123	DMA
Glass Transition Temperature (°C)	10°C/min ramp	56	DSC
Melting Point (°C)	10°C/min ramp	170	DSC
Melt Flow Index (g/10min)	210°C/2.16kg	30	ASTM D1238

OTHER PHYSICAL PROPERTIES

	Test Condition	Typical Values	Method
Density (g/cm ³)	Ambient	1.35	ASTM D792

For additional information, visit jabil.com

PROCESSING INFORMATION AND RECOMMENDATIONS

Jabil A00032-0940 can be processed on conventional injection molding equipment. It is recommended to balance speed, back pressure, and process temperature to control melt temperature. Injection speed should be medium to fast. Pre-drying is recommended as per the Processing Conditions section.

PROCESSING CONDITIONS

Zone	Typical Value
Pre-drying	8-12hr at 49°C (120°F) 2-4hr at 82°C (180°F)*
Feed Zone	20-40°C (68-104°F)
Compaction Zone	171-205°C (340-400°F)
Metering Zone(s)	171-216°C (340-420°F)
Nozzle	182-220°C (360-440°F)

Settings may require optimizations

* May lead to resin sticking if left for longer than 4hr.

"Disclaimer: The information in this technical data sheet, including material properties, are obtained from testing representative samples under carefully controlled conditions and are provided for reference only. Material properties may be impacted by storage, handling, processing equipment/parameters, and product design, among other factors. The information is not a substitute for user testing to determine fitness for any specific use and the user is responsible for ensuring safe and lawful use of the product.

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