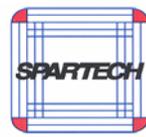


Rejuven8™



SPARTECH
CORPORATION
DATASHEETS

REJUVEN8™ & REJUVEN8 PLUS™

Made With NatureWorks® PLA

The Rejuven8™ family of products is another environmentally friendly plastics solution from Spartech. It is made with NatureWorks® PLA (Polylactide). It is a plastic resin that is derived from corn, an annually renewable resource.

Rejuven8™ is a standard PLA material. It is clear and has similar strength properties to Polystyrene. Rejuven8Plus™ is a strength-modified PLA material. It is a white opaque material that has similar strength properties to APET.

Both of these materials were specifically designed for thermoforming and printing applications.



Working to make the world a little more green.

ENVIRONMENTAL FACTORS – The “8” in Rejuven8™

LESS ENERGY TO PRODUCE: From the time the corn seed is planted to the time we receive resin pellets, it takes ~35% less energy to produce PLA plastic than other conventional plastics.

LESS GREEN HOUSE GAS EMISSIONS: The production of PLA plastic has 25% less green-house-gas emissions than other conventional plastics.

RENEWABLE RESOURCE: The Rejuven8™ is comprised of 99% annually renewable materials and Rejuven8Plus™ is comprised of 95% annually renewable materials where other conventional plastics are petroleum based.

BIODEGRADABLE: 99% of Rejuven8™ and 95% of the Rejuven8Plus™ contents are biodegradable through industrial composting.

LESS EXTRUSION ENERGY: PLA is processed at lower temperatures than other conventional plastics, resulting in reduced energy requirements.

VOLATILE ORGANIC COMPOUND REDUCTION: Chlorine gas emission, a by-product of producing PVC, is eliminated with this PLA

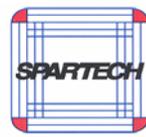
SAFER: Dehp plasticizer off-gassing, common in most or all PVC's, is eliminated with this Rejuven8™ and Rejuven8Plus™

SUPPORTS OUR FARMERS: PLA is made from corn, which supports the US agriculture industry.

Disclaimer: The values shown above are representative of values that have been obtained in the testing of various sheet samples of Rejuven8™. Each user of the material should conduct his own testing and evaluations to determine the effectiveness, safety, and suitability of the material for its particular use, specifically to include testing of prototype parts in their intended end use.

For additional information, please contact your local PMP Group representative.
Or visit our website at www.pmpgroup.org.

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TECHNICAL DATA / PHYSICAL PROPERTIES – REJUVEN8™

Property	ASTM Method	Typical Value
Physical Properties		
Specific Gravity	D792	1.24
Clarity		Transparent
Mechanical Properties		
Tensile Strength @ Break, psi (MPa)	D638	9,880 (68.1)
Flexural Strength, psi (Mpa)	D790	15,300 (105.5)
Flexural Modulus, kpsi (kpa)	D790	569.5 (3,927)
Instrumented Impact, Max. Load, lbs	D3763	294
Instrumented Impact, Total Energy, ft-lbs	D3763	2.9
Notched Izod Impact, ft-lb/in	D256	0.8

TECHNICAL DATA / PHYSICAL PROPERTIES – REJUVEN8PLUS™

Property	ASTM Method	Typical Value
Physical Properties		
Specific Gravity	D792	1.25
Clarity		Opaque
Mechanical Properties		
Tensile Strength @ Break, psi (MPa)	D638	8,780 (60.5)
Flexural Strength, psi (Mpa)	D790	13,440 (92.7)
Flexural Modulus, kpsi (kpa)	D790	530.0 (3,654)
Instrumented Impact, Max. Load, lbs	D3763	611
Instrumented Impact, Total Energy, ft-lbs	D3763	12.0
Notched Izod Impact, ft-lb/in	D256	0.8



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