

# INJECTION MOLDING

Green Your Machines

# UNI THERM

insulation systems

UniTherm Insulation Systems are high return, low investment insulation blankets that can lower your energy bill, protect your employees, and lower the ambient air temperature in your facility.

## BENEFITS

- » Payback in less than 12 months
- » Increased energy efficiency
- » Faster start up time
- » Less heat loss
- » Lower ambient air temperature
- » Longer heater band life
- » Increased personnel protection

## IDEAL FOR

- » Injection Molding
- » Blow Molding
- » Extrusion
- » Blown Film



[www.unitherm.com](http://www.unitherm.com) | 800.657.9542



## CASE STUDY

Prism Plastics

# UniTherm

insulation systems

## Prism Plastics shows **impressive energy savings** with **UniTherm Insulation Systems**

Prism Plastics, Inc. is an ISO 9001:2008 certified custom injection molder. With services ranging from engineering assistance with initial concept development and product design, project management from prototyping through production tooling approval, molding, assembly, custom packaging, and shipping, Prism Plastics' works to ensure products get to market in the fastest, most economical way.



Prism Plastics Inc was looking for a proven way to reduce their electricity usage and lower their overall energy costs.

Prism Plastics Inc turned to UniTherm Insulation Systems to purchase a set of blankets for their 220 Sumitomo, then brought their electric provider in to test the results.

St. Croix Electric ran an independent energy study on Prism Plastics' 220 Sumitomo. The energy study was conducted over 4 consecutive days; 2 days with blankets and 2 days without, at a consistent 350°F.

St. Croix Electric found that UniTherm blankets provided a 39.24% energy savings - which makes the blankets pay for themselves in less than 12 months.

**39.24%**  
energy savings

*"I look forward to continuing our relationship and I have lots more machines to install UniTherm blankets on!"*

Contact Prism Plastics | [prismplasticsinc.com](http://prismplasticsinc.com) | 715.246.7535

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# QUICKLY CHANGE PROCESS TEMPERATURE

with QuickCool from UniTherm

## UNITHERM insulation systems

UniTherm Insulation Systems developed QuickCool with our customers' concerns and needs in mind. The result - a custom engineered insulation blanket that increases energy efficiency by holding heat in, but quickly and

easily opens up to provide quick cool-down time for the next process. No tools are needed to remove the flap, just a simple tug of the strap saves minutes per changeover, which can quickly turn into more production time and bigger profits.

## BENEFITS

- » Faster start-up time
- » Lower ambient air temperature
- » Saver work environment
- » Easy installation
- » Increased energy efficiency
- » More production time
- » Higher energy savings

## DESIGN COMPONENTS



QuickCool fully enclosed to increase energy efficiency during high-temperature process job.



QuickCool Velcro™ flaps removed during process change.

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# PROTECT YOUR INVESTMENT

with DroolShield from UniTherm

## UNITHERM insulation systems

bands, wiring and insulation blankets. The non-stick coating on the exterior makes for easy removal of plastic drool.

DroolShield is a UniTherm trademarked product designed for the plastics industry. DroolShield fits on the nozzle of an injection machine and protects drool back from destroying heater

### BENEFITS

- » Easy to Install
- » Protects Heater Bands
- » Easy Clean Up
- » Saves Downtime

### DESIGN COMPONENTS

- » Air Craft .080 Aluminum
- » Custom Fit Packing
- » Non-stick Coating
- » Stainless Steel Clamp
- » Binding Post Guides
- » Non-stick Packing



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# PAYBACKS & ROI

## Injection Molding

# UNI THERM

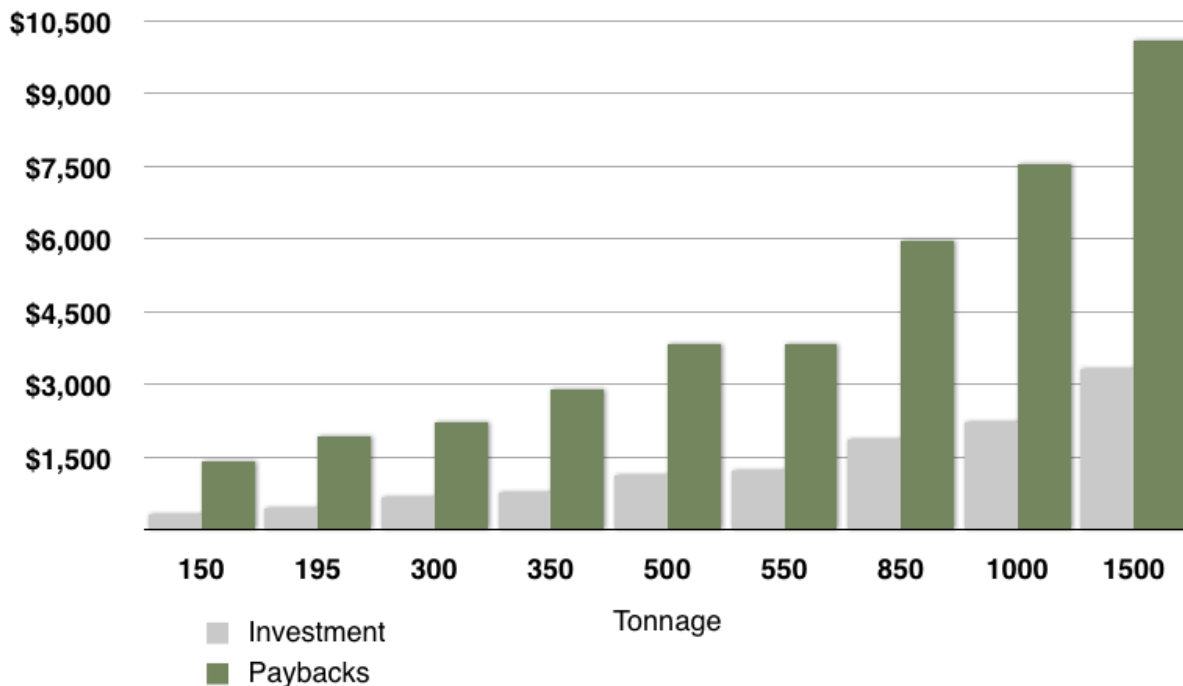
insulation systems

Tonnage	Estimated Initial Investment	KWh Uninsulated	KWh Insulated	Payback Period (Months)	3 Year Savings
150	\$300	1.52	0.52	8.54	\$1,391.81
195	\$429	2.05	1.23	8.05	\$1,919.16
300	\$660	3.00	2.05	10.69	\$2,223.72
350	\$770.00	5.21	3.98	9.63	\$2,878.92
500	\$1,100.00	7.65	6.02	10.38	\$3,815.28
550	\$1,210.00	7.65	6.02	10.38	\$3,816.28
850	\$1,870.00	9.33	6.79	11.32	\$5,945.04
1000	\$2,200.00	11.35	8.12	10.48	\$7,560.00
1500	\$3,300.00	13.54	9.22	11.75	\$10,111.32

KWh uninsulated and insulated reflects energy consumed by heaters one hour without insulation and one hour with insulation. Payback and return on investment calculations are based on the assumption that the machines will run 24/7/52. The assumed KWh rate is \$.06

\*The investment and roi amounts above are estimates and are not a guarantee

### Initial Investment vs. 3 Year Savings



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