



Formosa Plastics®

The Reliable Source for Polymer Solutions

Formolene® Polypropylene Packaging Components | Quality, Value and Performance

Formolene® Polypropylene Random Copolymers Offer High Clarity, Improved Performance and Cost/Energy Savings

Formosa Formolene® grades with advanced generation clarifier allow:

Lower
process
temperature

Shorter
cooling
time

Energy
savings of
~ 15 %

Cycle time
reduction
of ~ 10 %

Enhanced Aesthetics



Standard RCP

**Formosa Next
Generation RCP**



Traditional clarifiers require high processing temperatures to optimize transparency/clarity. The improved solubility of the advanced generation clarifier and unique Formosa resin architecture provides improved aesthetics at significantly lower temperatures than traditional clarifiers. Lower temperatures mean lower energy consumption and shorter cycle time. Hence, improved productivity and a more sustainable solution.

Random Copolymers - Products & Technical Specifications (Selected Materials)

GRADES	3312B	3312E	3335E	3435E	3355E	33550
DESCRIPTION	Good Clarity, Improved Economics	Advanced Clarification	Advanced Clarification & Mold Release	Higher Impact, Advanced Clarification & Mold Release	Advanced Clarification & Mold Release	Higher Impact, Advanced Clarification & Mold Release
MELT FLOW	12	12	35	35	55	55
TENSILE STRENGTH	4,300	4,400	4,300	3,700	4,200	4,200
ELONGATION (YIELD)	13	13	13	16	15	15
FLEX MODULUS	150	155	155	125	150	125
IZOD @ 730 °F	1.0	1.2	1.2	1.8	1	1
FDA	Y	Y	Y	Y	Y	Y
ANIMAL DERIVED MATERIAL FREE	Y	Y	Y	Y	Y	Y


How to save energy and increase productivity

Case Study: Storage Tote



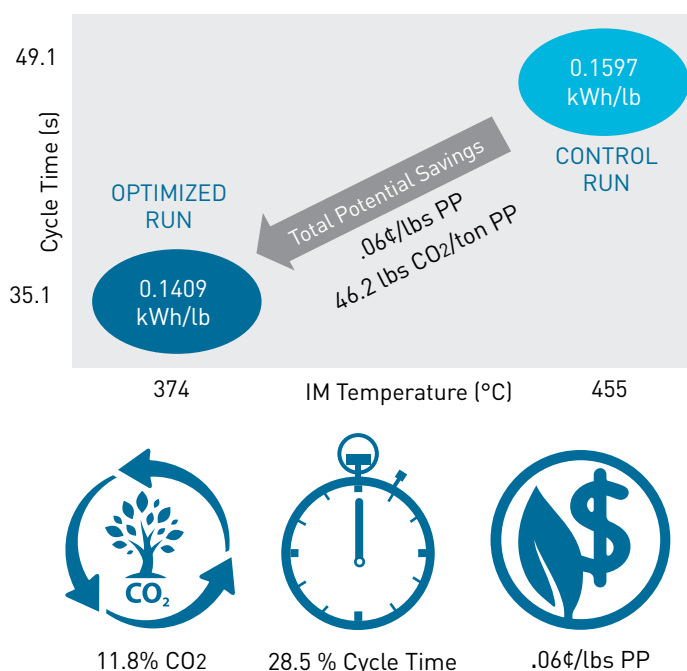
Part	Storage Tote
Machine	Hydraulic Injection Molder
Shot Weight	2.335 lb/part
Previous	35 MFR RCP
Generation Resin	
Formosa Resin	35 MFR RCP
Assumptions	
Energy Cost	\$0.075/kWh
Machine Cost	\$25/hr
Labor Cost	\$10/hr

Savings

	SAVINGS EXPRESSED AS*
	% cycle time 28.5%
	Hrs saved in manufacturing 16,654.8 hrs
	\$ Value \$597,017.00
	% CO ₂ emission 11.8%
	Cars running per year 18.36
	Domestic power [houses]/year 11.67
	Acres of forest/year 19.96

* All calculations assume 10 million pounds of resin

Total potential savings independent of resin costs



Please contact a Formosa representative for more details or to arrange a trial.

Case study based on results from commercial trial. Results will depend on machine type, resin, part size/design and processing conditions at each trial.

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