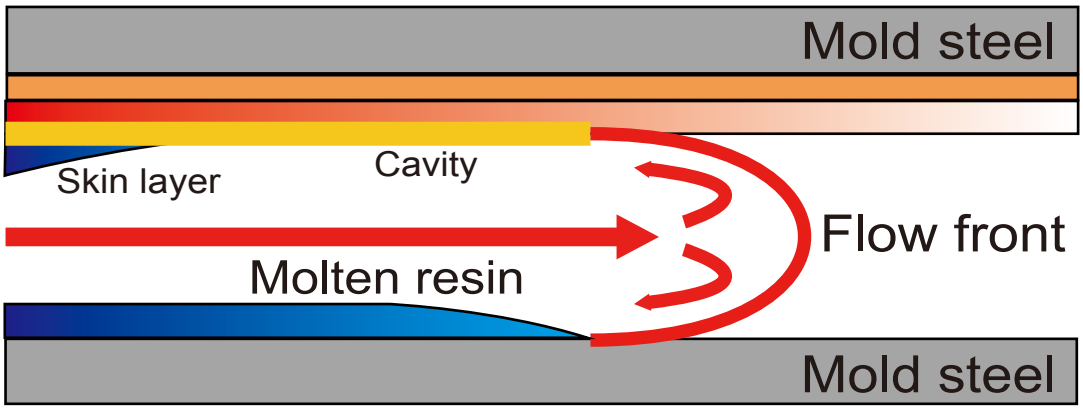
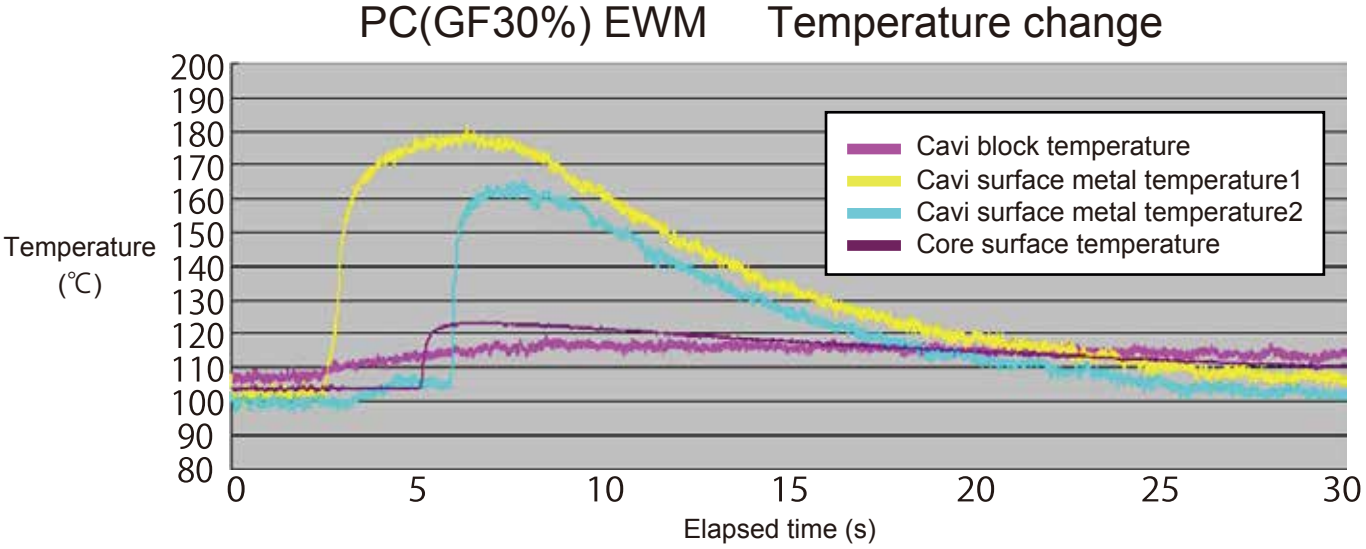
High appearance & Eco Eco Weldless Mold





1,Weldless molding 2,High appearance molding 3,Thin walled molding
---1,2,3 ~without any other incidental equipment!

This technology enable to realize not only the high Quality Molding,but also the reduction of powerconsumption. So we can contribute to the reduction of greenhouse gases which become a global probrem.

Eco weldless molding Comparison table

	Normal	Eco weldless	Heat&Cool	Advantages of Eco weldless
Energy consumption	○	○	×	It does not require energy from the outside.
Molding cycle	○	○	△	Equivalent to the normal mold.
Mold cost	○	△	×	About 1.3 times the normal mold. The affordable than Heat&Cool.
Incidental equipment	○	○	×	Equivalent to Normal molding. (Boiler and Chiller is not required)
appearance quality	×	○	○	Good appearance equivalent to the Heat&Cool.
Molding pressure	100%	About 70%	About 120%	For molding at low speed and low pressure is possible,you can reduce the power to tighten the mold.
Mold size	100%	About 75%	About 120%	Internal pressure of the mold becomes small, can be lightweight and compact.

Effect of Eco Weldless Mold

High Quality

Weldless!
High Appearance!

Surfacce comparison of products containing GF

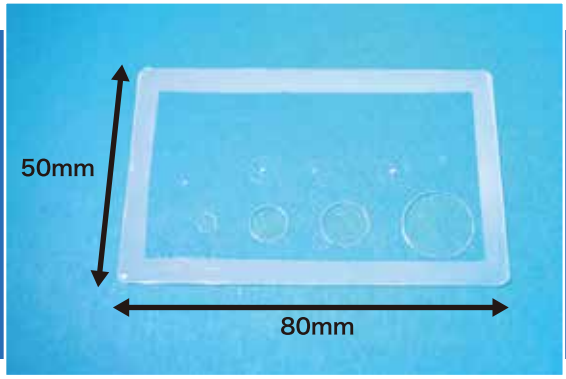
Eco Weldless Mold

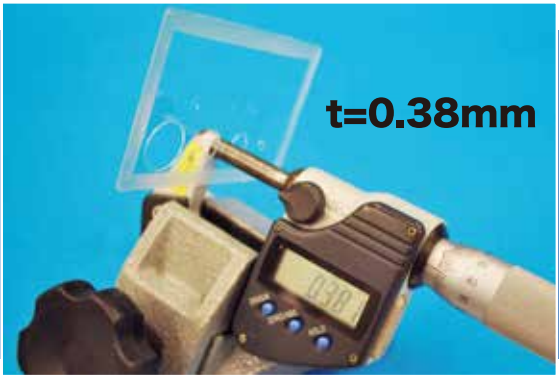
Weld comparison

Normal Mold

High flowability

Thin walled Molding
with no incidental!



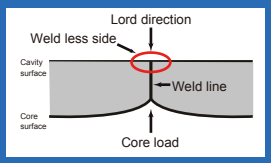


High Strength

Test pieces (Material)	Lord direction	Cavity	Maximum point stress N/mm2	Intensity change %
PS	Cavity	Normal	47.95	0.50%
		one side ECO	48.19	
	Core	Normal	48.75	5.08%
		one side ECO	51.23	
AS	Cavity	Normal	92.55	12.64%
		one side ECO	104.25	
	Core	Normal	95.10	17.03%
		one side ECO	111.30	
PMMA	Cavity	Normal	59.90	10.11%
		one side ECO	65.96	
	Core	Normal	78.21	36.64%
		one side ECO	106.87	
PC+GF30%	Cavity	Normal	35.16	9.49%
		one side ECO	38.50	
	Core	Normal	38.21	14.99%
		one side ECO	43.94	

Weld strength test results

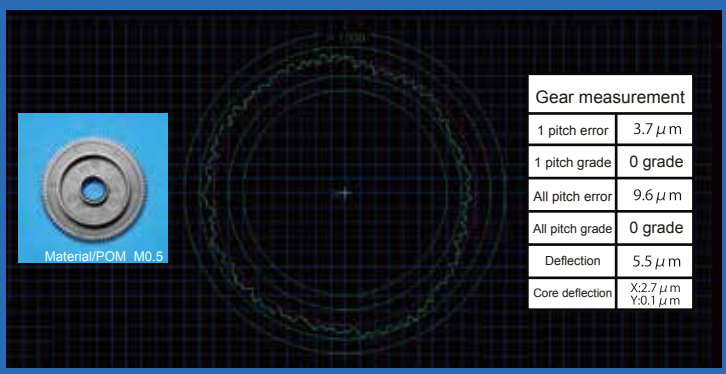
Mesurement photo



Lord direction

To Use EWM,improving the strength of the point of weld line.

High Transcription



You can make a 0 grade gear(JGMA) with EWM