

Polypropylene for Thin-Wall Injection Molding

Stage

Concept

Developing

Developed

Launched

Keyword

Lightweighting



Use

Thin-wall Food Containers /
Compounded Material

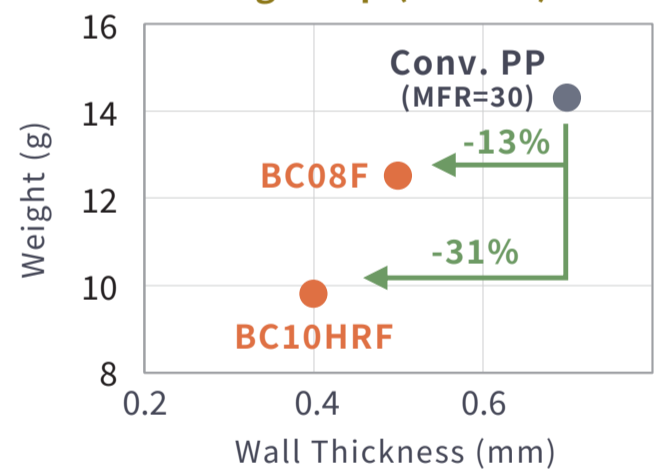
Background

High-flow ICPs with excellent flowability, mechanical properties and moldability are developed for thin-wall injection molding. Its superior flowability and optimized materials design enable down-gauging of injection-molded products. Good flowability is maintained even after compounding with organic or inorganic fillers by using high-flow ICPs as a based resin.

Flowability Comparison

	Conv. PP	BC10HRF
MFR	30 g/10min	100 g/10min
Spiral Flow (JPP Method)	800mm 	1,200mm 

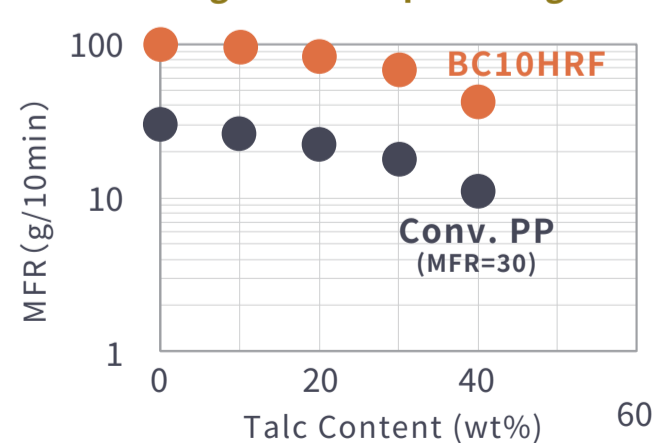
[Weight Difference for Beverage Cup (200mL)]



Properties

		Conv. PP	BC08F	BC10HRF
MFR	g/10min	30	75	100
Flexural Modulus	MPa	1,450	1,400	1,250
Flexural Strength	MPa	38	36	34
Tensile Strength @ Yield	MPa	27	25	24
Nominal Tensile Strain	%	50	10	10
Charpy Impact Strength	23°C	9.5	7	6.5
	0°C	6	3	2.5

[MFR Changes on Compounding Talc]



Good flowability is maintained even after compounding with talc by using high-flow ICPs as a base resin.

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