

Plastic containing natural materials (Styrene copolymer containing eggshell)

Under
Development

PLATIECO

Feature of our technology

- A composite material in which the powder of the eggshell is mixed into a thermoplastic resin.
- It is a material that is useful for protection of the global environment containing natural waste (eggshell).
- It has a heat -melted molding properties comparable to a fossil raw material - derived resin, and can be formed into various shapes (sheets, cases, etc.).

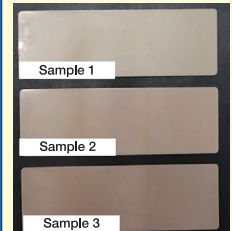
Basic Properties

			Styrene copolymer containing eggshell (50wt %)		
			Lot A	Lot B	Lot C
Fluidity at heating	MFR (200°C, 5kg)	g/10min	31	28	31
	Specific gravity	—	1.45	1.45	1.44
Properties	Bending elastic modulus	MPa	2780	2690	2600
	Bending strength	MPa	29	29	29
	Charpy impact strength	kJ/m ²	13.6	12.0	14.1
Color	L*	—	79	78	82
	a*	—	5.9	6.3	5.2
	b*	—	27	26	29

Pellet appearance



Color example of molded objects



The above characteristic values are representative values, not warranty values.

Fig.1 Melt viscosity of styrene copolymer composite containing eggshell

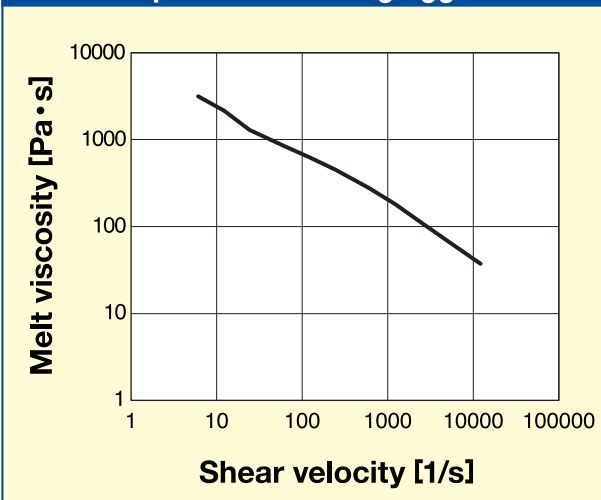


Fig.2 MFR at each temperature (each temperature, 5kg)

