

Nextep Miyama Step Iron Material Specification

1. Plastic Coating

- 1.1 Product Name: NOVATEC® - BC6C
 1.2 Chemical Classification: Polypropylene (C3H6)m
 1.3 Physical Characteristics:

Item	Unit	NOVATEC®-BC6C
Specific gravity	G/cm ³	0.90 ~ 0.91
Bending elasticity	Kgf/cm ²	15,000
Tensile yield strength	Kgf/cm ²	310
Braking elongation	%	200
Izod impact strength 23_ ~ -20_	Kgf ~ cm/cm ²	10/3.5
Rockwell hardness (R)	~	100
Polyolefin competence	~	Conformity
Advantageous characteristics	~	High impact High gloss

- 1.4 Chemical Resistance

Chemical (Density Wt % - _)	NOVATEC®-BC6C
Nitric Acid (10-RT)	-
Nitric Acid (10-70)	-
Nitric Acid (30-RT)	-
Nitric Acid (30-70)	-
Sulphuric Acid (10-RT)	-
Sulphuric Acid (10-70)	-
Sulphuric Acid (30-RT)	-
Sulphuric Acid (30-70)	-
Sodium Hydroxide (10-RT)	-
Sodium Hydroxide (30-RT)	-
Sodium Hydroxide (30-70)	-
Sodium Hypocholite	-

Notes: _ = No effect _ = Minor effect conditional usage
 _ = Not recommended _ = Not suitable
 RT = Room Temperature

- 1.5 Safety Data

- 1.5.1 Classification of dangerous and harmful product / Not Applicable
 1.5.2 Extinguishable agents in case of fire:
 Water, carbon dioxide, dry chemical and foam extinguisher.
 1.5.3 Gas generated due to combustion:

	Air Q. t/hr	Generated gas mg/ 1g specimen											
		Hcl	Co ²	Co	Cos	So ²	N ² O	Nh ³	Non	CH ⁴	C ² H ⁴	C ² H ²	
Polypropylene	100		1125	190	~	~	~	~	~	~	107	213	106

(heat temperature - 700_)

- 1.5.4 Melting point - 150_~160_
 1.5.5 Flash point/ Ignition point – approx. 340_ > 400_.

2. Reflective lens

- 2.1 Product name: NOVAREX® - 7025L1
 2.2 Chemical classification: Polycarbonate resin

2.3 Physical characteristics

<i>Item</i>	<i>Unit</i>	<i>NOVAREX® - 7025L1</i>
Specific gravity	~	1.20
Tensile strength	Mpa (kgf/ cm ²)	60.8 (620)
Tensile elongation	%	110
Flexural modulus	Gpa	23
Izod impact strength	J/m (kgf/ cm/cm)	880 (90)
Rockwell hardness	~	R120
Taber abrasion	Mg/1000cy	13

2.4 Special features

- 2.4.1 Superior impact strength.
- 2.4.2 Usability in a wide range of temperatures -40_ to 120_.
- 2.4.3 Excellent electrical insulation capability.
- 2.4.4 Excellent precision moulding properties and dimensional stability.
- 2.4.5 Low moisture absorption.
- 2.4.6 Excellent weather resistance.
- 2.4.7 Superior in self-extinguishing capabilities.
- 2.4.8 Superior transparency.