

POKETONE for Watt-hour meter

Global Warming Potential

* PA6	6.70	
* PA66	6.40	
* PC	3.40	
* POM	3.20	
* ABS	3.10	
** PK	3.08	(kg CO ₂ eq)

* Other ETP data is based upon the Eco-profiles data from www.plasticseurope.org

** PK Data is based upon Korea LCI database and Ecoinvent database.

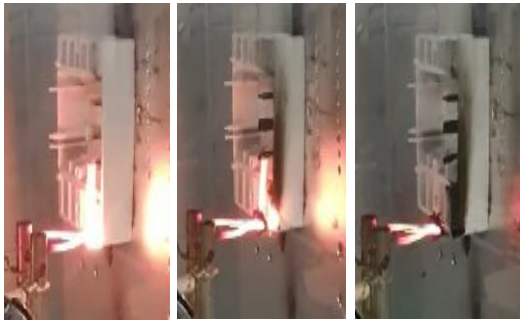


Non Toxic High Efficiency

Acrylate Free
Melamine Free
Bisphenol A Free
Formaldehyde Free
Lead/ Chrome/ Free
Phthalate Free

POKETONE[™]
HYOSUNG POLYKETONE

POKETONE for Watt-hour meter



※ POKETONE
 GWFI : 960°C, GWIT : 825°C, GWT : 750°C

POKETONE has superior electrical properties, so it is an excellent material that can be applied to watt-hour meter parts.

POKETONE is tested under IEC 60335-1 : Safety of household electrical appliances, and all the results is acceptable

Especially, POKETONE watt-hour meter has passed Glow Wire Test at 750°C (IEC 60695-2-11) with no ignition

Glow Wire Test has performed to about 60 kinds of connectors - All the results is “No Ignition”

UL 746A (POKETONE vs PC)

POKETONE is higher HWI(Hot-wire Ignition), CTI(Comparative Tracking Index), HVTR(High Voltage Arc Tracking Rate), Arc Resistance than existing materials

UL 746A	Existing materials (PC+GF+FR)	POKETONE (PK+GF+FR)
Hot-wire Ignition (HWI)0.8 mm		PLC1
Hot-wire Ignition (HWI)1.5 mm	PLC 3	PLC 0
Hot-wire Ignition (HWI)3.0 mm	PLC 2	PLC 0
High Amp Arc Ignition (HAI)0.8 mm		PLC 0
High Amp Arc Ignition (HAI)1.5 mm	PLC 0	PLC 0
Comparative Tracking Index (CTI)	PLC 3	PLC 0
High Voltage Arc Tracking Rate (HVTR)	PLC 3	PLC 2
Arc Resistance	PLC 7	PLC 5

PROPERTIES (POKETONE vs PC)

Properties	Unit (ISO)	Existing materials (PC+GF+FR)	POKETONE (PK+GF5%+FR)	POKETONE (PK+GF15%+FR)
Density	g/cm ³	1.25	1.29	1.40
Melt Flow Index	g/10min	10	25	13
Mold Shrinkage	%	0.2~0.4	0.7~1.1	0.5~0.8
Tensile strength at yield	MPa	80	55	65
Tensile elongation at break	%	4	18	6
Flexural modulus	MPa	4,300	2,550	4,370
Flexural strength	MPa	138	80	117
Notched Charpy impact strength	kJ/m ²	7	6	8
Flammability	UL94	1.5T V0	0.8T V0	0.8T V0
Outdoor Suitability	UL 746C	f1		Internal Method f1

• POKETONE commercial Plant in South Korea, Ul-san City, Production capacity : 50,000 MT/Year



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Further Information

www.poketone.com

+Note : The data contained in this publication are based on our current internal knowledge and experience, these do not imply any guarantee of certain properties. Most images are from googling image researching, which is considered as public open information.