POKETONE™
HYOSUNG POLYKETONE

『 Poketone Application』

- Automobile -

HYOSUNG

1. Connector

Summary

• Current material : PBT, Modified PBT

• Product : Modified PK

Value In Use

• Mechanical property

- Better impact resistance at low temperature (-30℃)

▶ *Data*

Item		Unit	Method	PK	PBT
Charpy Notched Impact strength	23℃	KJ/m²	ISO 179/1eA	18.5	3.0
	-30℃			4.5	0

* Drop Impact Test (-30℃)

<PK>

<PBT type 1>

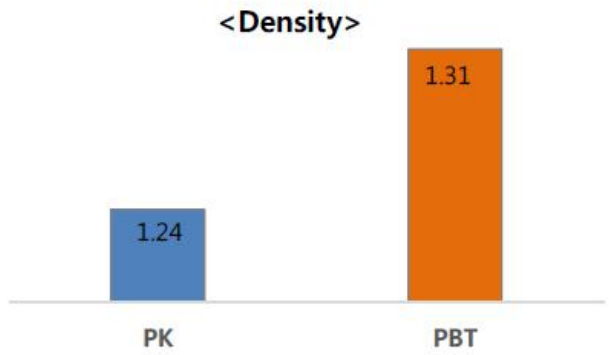
<PBT Type 2>

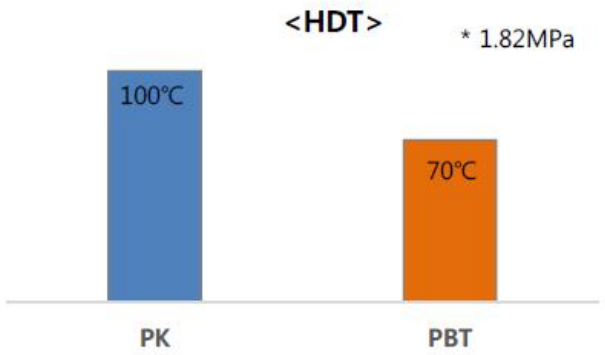
1. Connector

Value In Use

- Weight reduction : “6%” better than PBT
- Thermal property : Less deformation by heat

▶ *Data*



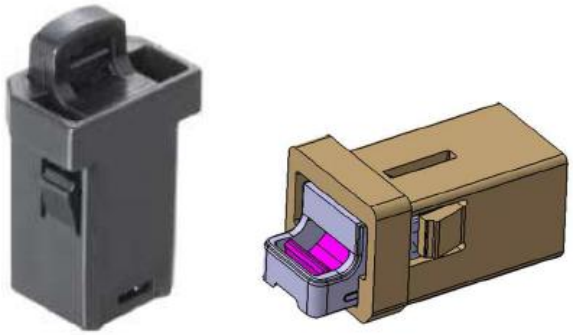


- Moldability : Better processability for thin wall

▶ *Data*

Item	unit	Method	PK (240℃, 2.16kg)	PBT (250℃, 2.16kg)
Melt Flow Index	g/10min	ASTM D1238	60	28

2. Overhead Console Latch Housing



Summary

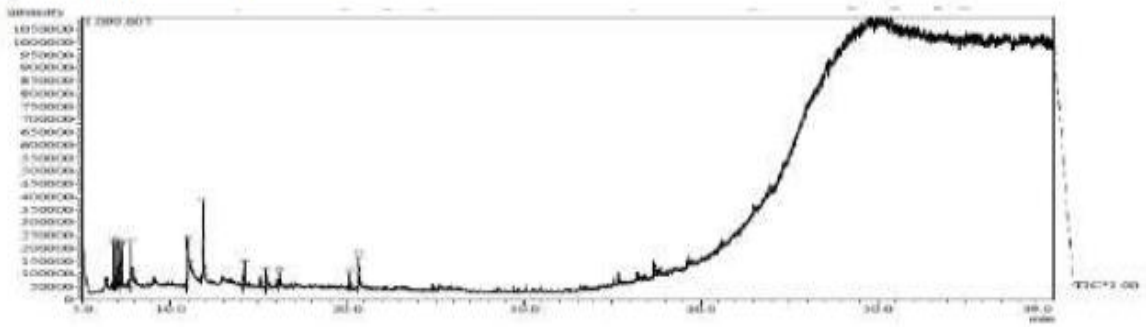
- Current material : Modified POM
- Product : PK+GF10%

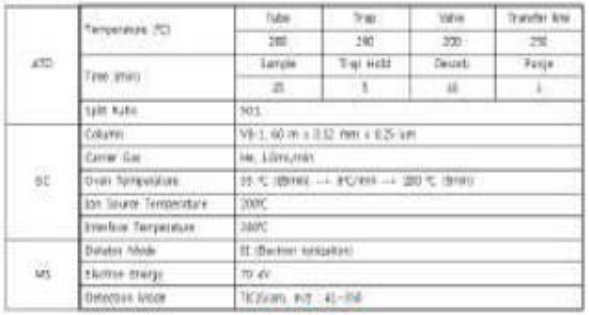
Value In Use

- Noise reduction compared to POM

▶ *Data*

* Method : MS300-55





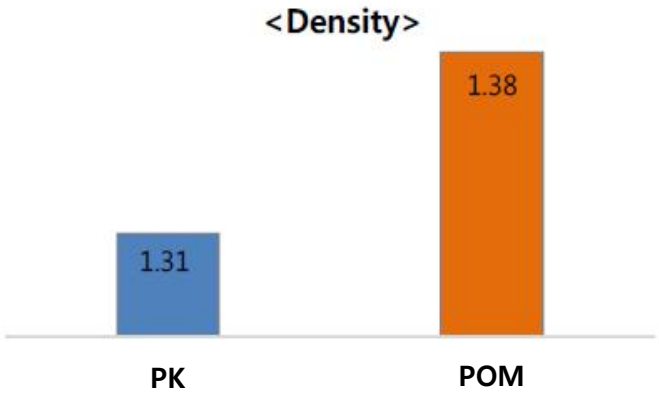
项目	笨	甲苯	乙苯	二甲苯(-m,-p,-o)	苯乙烯	甲醛	丙烯醛
规定量(μg/m³)	30↓	1000↓	1600↓	870↓	300↓	250↓	50↓
分析结果(μg/m³)	3	25	ND	15	35	ND	10

2. Overhead Console Latch Housing

- **Weight reduction : “5%” better than PBT**

▶ *Data*

Item	PK+GF10%	Modified POM
Density	1.31	1.38



3. Radiator End Tank

Summary

- Current material : PA66+GF33%, PA66/PA612+GF33%
- Product : PK+GF33%

Customer Requirements

- Chemical Resistance
- CaCl2, ZnCl2, Ethylene Glycol
- Moldability
- Dimensional stability
- Hydrolysis resistance

4. Door Frame Inner Cover

Summary

- Current material : PA6+GF15%
- Product : PK+GF15%

Customer Requirements

- Dimensional stability
- Impact Resistance
- Moldability
- Wear resistance

5. Sun Visor Pivot Arm

Summary

- Current material : PA66+GF33%
- Product : Under Developing

Customer Requirements

- Wear resistance
- Impact Resistance
- Dimensional stability

6. Carrier Plate

Summary

- Current material : High viscosity POM
- Product : Under Developing

Customer Requirements

- Wear resistance
- Low formaldehyde elution

7. Power Window Switch

Summary

- Current material : ABS
- Product : Under Developing

Customer Requirements

- Impact Resistance
- Wear resistance
- Volatile material reduction

8. Center Fascia U Clip

Summary

- Current material : POM
- Product : Under Developing

Customer Requirements

- Impact Resistance
- Wear resistance
- Volatile material reduction

9. Garnish

Summary

• Current material : ABS

• Product : Under Developing

Customer Requirements

• Chemical Resistance

- Sun cream

• Wear resistance

• Volatile material reduction