

# **KEPEX<sup>®</sup> 3300CU MA (Metallic Grade)**

R&D Center

## 1. Characteristics

- (1) KEPEX<sup>®</sup> 3300CU MA is a PBT resin that has metallic-sensitive quality.
- (2) KEPEX<sup>®</sup> 3300CU MA can realize excellent surface and high gloss of the product while retaining the normal properties of PBT.
- (3) KEPEX<sup>®</sup> 3300CU MA can replace existing plated products and painted products which can reduce cost by decreasing process and error rates.
- (4) Products can be manufactured with a normal injection molder, and the material has excellent injection moldability.

## 2. General Properties

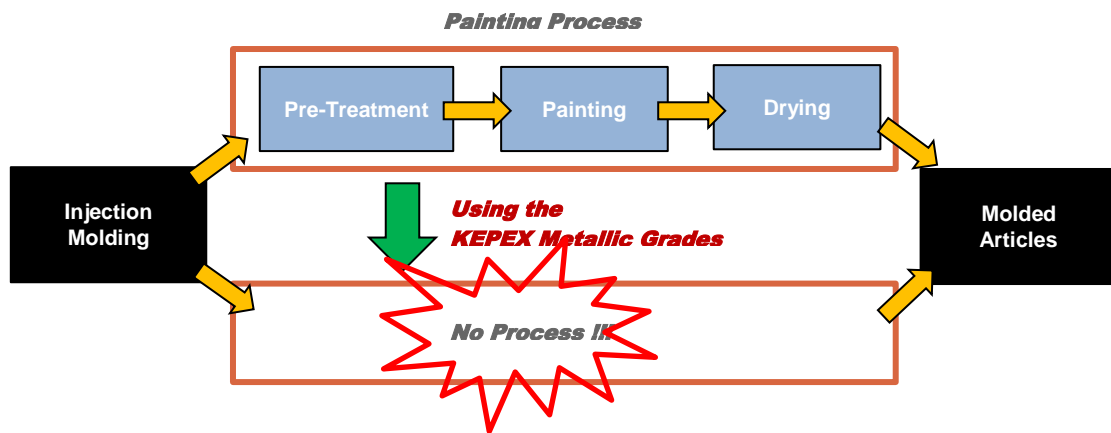
General properties of metallic grades are shown in Table 1.

Table 1. General Properties of Metallic Grades

Item	Test Method	Unit	KEPEX 3300CU MA		
			High Flow	Standard	High Toughness
Density	ISO 1183	-	1.33	1.33	1.31
Tensile Strength	ISO 527	MPa	58	61	57
Tensile Strain	ISO 527	%	5	7	10
Flexural Strength	ISO 178	MPa	91	93	86
Flexural Modulus	ISO 178	MPa	3,000	2,950	2,770
Charpy Impact Strength (notched)	ISO 179	kJ/m <sup>2</sup>	2.0	3.5	4.0
Melt Index	ISO 1133	g/10 min	110	55	69

### 3. Key Points

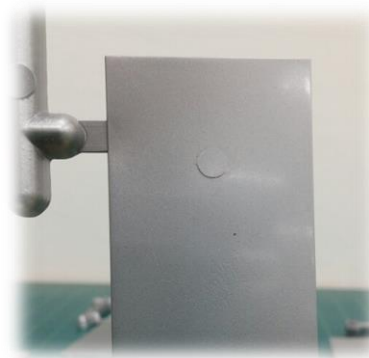
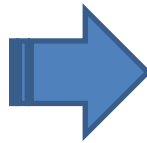
(1) Reduce cost by decreasing painting process.



(2) Excellent molded surface by securing high flow characteristics. We solved the chronic molded surface problem of metallic grades such as flow marks at the gate.



[Molded surface of existing metallic material]

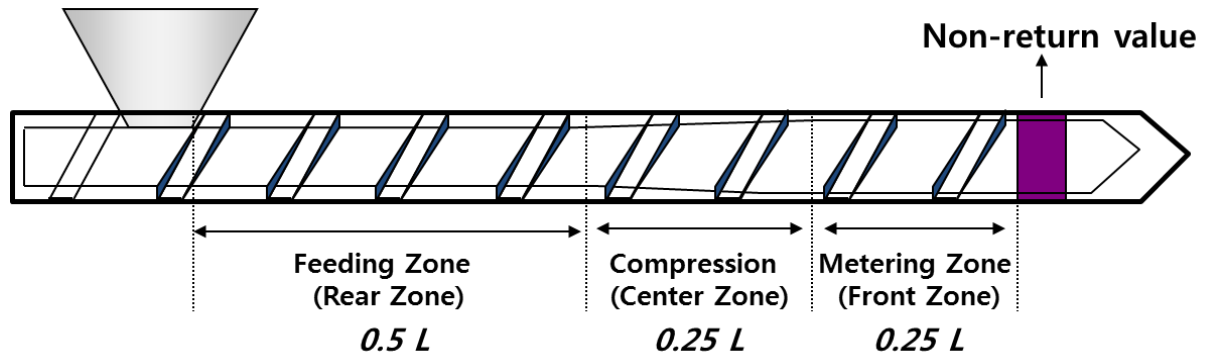


[Molded surface of KEPEX metallic grades]

(3) KEPEX<sup>®</sup> 3300CU MA emits low VOC's and that's why it can be applied to automotive inner parts.

Classification	Unit	KEPEX 3300CU MA
MS300-55 3-liter Tedlar bag	ppm	1.8
VDA275	mg/kg	1.6

#### 4. Standard Molding Conditions



Classification		Celsius	Fahrenheit
Pre-drying		120 ~ 130 °C, (3~5 h)	248 ~ 266 °F, (3~5 h)
Cylinder Temperature	Rear	240 °C	464 °F
	Center	245 °C	473 °F
	Front	250 °C	482 °F
	Nozzle	250 °C	482 °F
Mold Temperature		60 ~100 °C	140 ~ 212 °F

#### 5. Applications

[Inside door handle]



[Windows and door handle]



[Water-saving valve]



[Water-saving button]



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*Disclaimer:* The information contained in this data sheet is based on our current knowledge and experience, so it may change as new knowledge and experience becomes available. This information is based on only above-mentioned product produced in Korea Engineering Plastics Co., Ltd. ("KEP") through relevant test methods and conditions and doesn't relate to any products made of this product with the inclusion of other additives, such as processing aids or colorants. This information should not be construed as a promise or guarantee of specific properties of this product described or its suitability for a particular application, so users make their own determination as to its suitability to their purposes prior to use this product. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of this product. This product is not intended for use in medical and dental implants and users should meet all safety and health standards. KEP makes no warranty and assumes no liability in connection with any use of this information.