

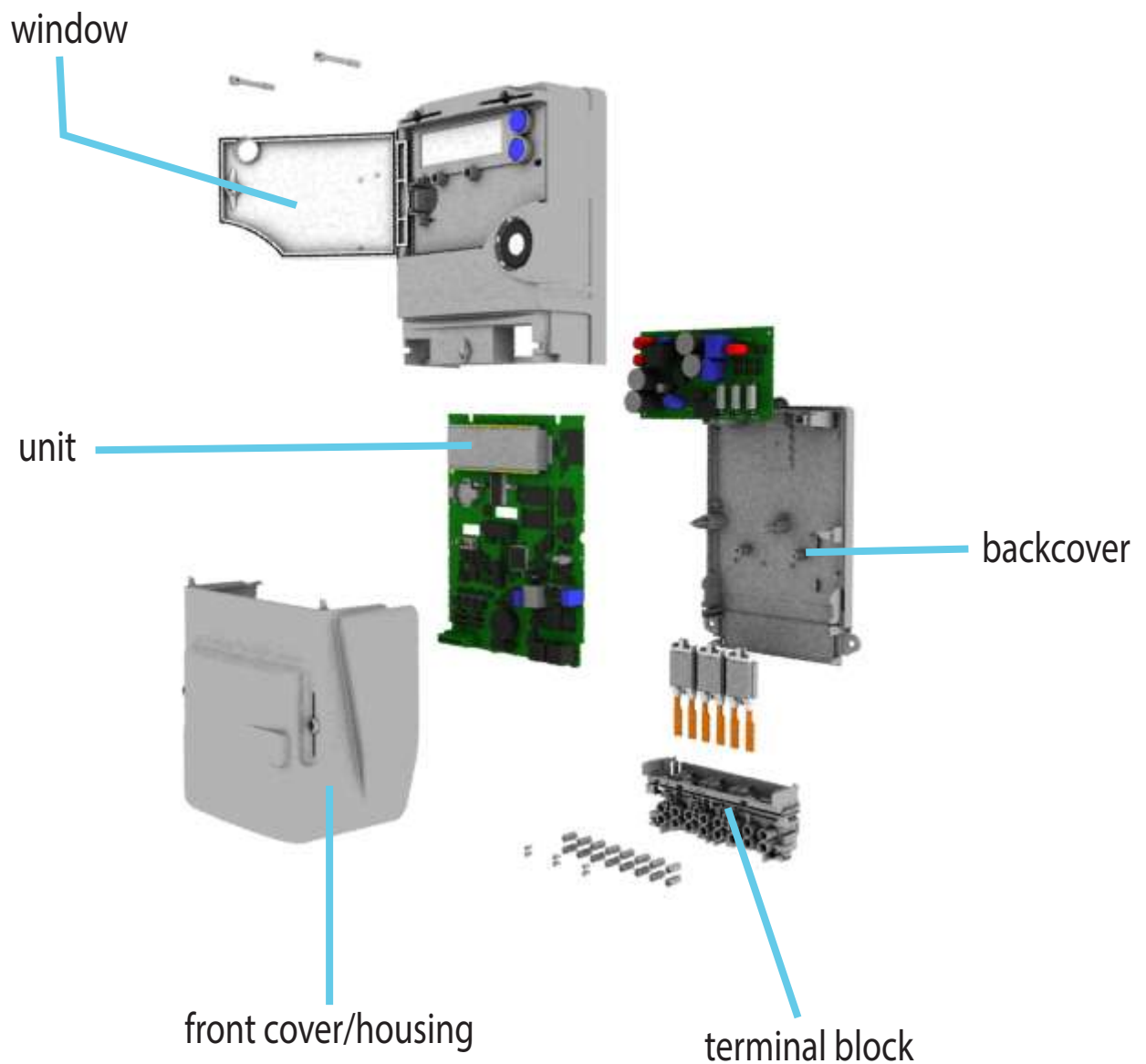
Panlite Spotlight

Smart Meter Edition

Teijin Kasei Europe B.V.

Smart Meter Edition

In this special edition, we will feature the grades which meet the requirements of the smart meter industry.



Recommended grades

| Parts | Required Properties | Teijin Grades | Properties | Material Origin |
|---------------------|---------------------|---------------|----------------------------|-----------------|
| Window | Transparent/UV | LV-2225Z | V-2 (0.4mm) | Singapore |
| | Transparent/FR/UV | MN-4400Z | V-0 (2.0mm) | Japan |
| | | MN-4800Z | V-0 (1.5mm) GWFI: 960°C | Japan |
| Backcover | GWFI: 960°C | GN-3610ZL | PC/GF/FR | EU |
| | | | V-0 (1.6mm) | |
| | | LN-3520ZH | PC/FR | EU |
| | | | V-0 (1.0mm) | |
| Terminal Block | GWFI: 960°C | GN-3610ZL | PC/GF/FR | EU |
| | | | V-0 (1.6mm) | |
| Front Cover/Housing | V-0 GWFI: 960°C | GN-3610ZL | PC/GF/FR | EU |
| | | | V-0 (1.6mm) | |
| | | LN-3520ZH | PC/FR | EU |
| | | | V-0 (1.0mm) | |
| Unit | PC/FR | MN-3600HS | V-1 (1.0mm) | EU |
| | | | GWFI: 960°C | |
| | | TN-7500 | V-0 (1.5mm) | EU |

Properties at a glance (1)

| Application | | | | Window | | |
|-----------------------------|------------------------|------------------------|------------------|----------|----------|-------------|
| Material Type | | | | PC/UV | PC/UV/FR | PC/UV/FR |
| Property | Unit | Method | Conditions | LV-2225Z | MN-4400Z | MN-4800Z |
| Density | kg/m ³ | ISO 1183 | - | 1200 | 1200 | 1200 |
| MVR | cm ³ /10min | ISO 1133 | 300°C/1.2kg load | 11 | 4 | 7 |
| Tensile Yield Stress | MPa | ISO 527-1 ISO 527-2 | 50mm/min | 61 | 69 | 69 |
| Tensile Fracture Stress | MPa | | | - | 65 | 65 |
| Tensile Fracture Distortion | % | | | - | 108 | 120 |
| Flexural Strength | MPa | ISO 178 | 2mm/min | 94 | 100 | 100 |
| Flexural Modulus | MPa | | | 2400 | 2400 | 2400 |
| Charpy Impact Strength | kJ/m ² | ISO 179 | Notched | 71 | 11 | 11 |
| Heat Deflection Temp | °C | ISO 75-1 ISO 75-2 | 1.80MPa | 128 | 125 | 121 |
| Ball Pressure Temp | °C | IEC 60695-10-2 | - | - | - | - |
| GWFI | °C | IEC 60695-2-12 | - | - | - | 960 (1.5mm) |
| Outdoor Suitability | - | UL 746C | - | f1 | - | f1 |

The above figures are specification values, not certified values.

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Properties at a glance (2)

| Application | | | | Terminal Block/Housing/ Back & Front Cover | | Unit | |
|-----------------------------|------------------------|------------------------|--|---|----------------------------|--|---|
| Material Type | | | | PC/GF/FR/UV | PC/FR | PC/Filler | PC/ABS |
| Property | Unit | Method | Conditions | GN-3610ZL | LN-3520ZH | MN-3600HS | TN-7500 |
| Density | kg/m ³ | ISO 1183 | - | 1270 | 1200 | 1190 | 1180 |
| MVR | cm ³ /10min | ISO 1133 | 300°C/1.2kg load *280°C/5kg load **250°C/2.16kg load | 16 | 12 | 19* | 16** |
| Tensile Yield Stress | MPa | ISO 527-1 ISO 527-2 | 50mm/min | - | 66 | 65 | 63 |
| Tensile Fracture Stress | MPa | | | - | 7 | 65 | 47 |
| Tensile Fracture Distortion | % | | | 3 | 100 | 85 | 50 |
| Flexural Strength | MPa | ISO 178 | 2mm/min | 120 | 97 | 90 | 95 |
| Flexural Modulus | MPa | | | 3600 | 2440 | 2400 | 2600 |
| Charpy Impact Strength | kJ/m ² | ISO 179 | Notched | 4 | 15 | 55 | 13 |
| Heat Deflection Temp | °C | ISO 75-1 ISO 75-2 | 1.80MPa | 135 | 127 | 114 | 80 |
| Ball Pressure Temp | °C | IEC 60695-10-2 | - | 125 (3.0mm) | 125 (3.0mm) | 125 (3.0mm) | - |
| Flammability | - | UL 94 | - | V-0 (1.6mm) V-1 (1.0mm) | V-0 (1.0mm) | 5VA (3.0mm) 5VB (2.0mm) V-0 (1.5mm) V-1 (1.0mm) | 5VB (2.0mm) V-0 (1.5mm) V-1 (1.2mm) |
| GWFI | °C | IEC 60695-2-12 | - | 960 (1.0mm) | 930 (1.0mm) 960 (3.0mm) | 960 (1.0mm) | - |
| Outdoor Suitability | - | UL 746C | - | - | - | - | - |

The above figures are specification values, not certified values.

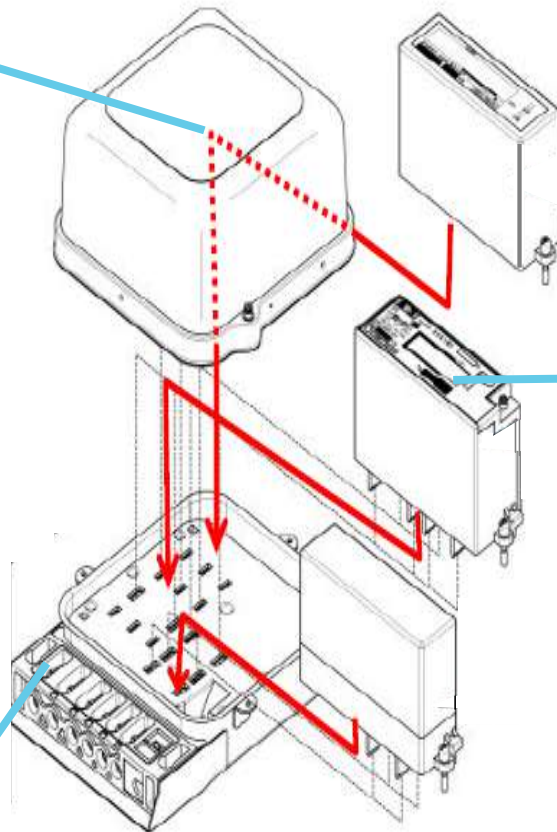
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Reference

Japanese smart meter manufacturer



Cover
GWFI: 650 °C
LV-2225ZS



Unit
PC/V-0
MN-3600HS

Terminal Block
GWFI: 960 °C
GN-3610ZL

Who are we?

Teijin Kasei Europe B.V. (TKE) has been in Europe for more than 10 years, serving all customers in the EU region.

TKE offers sales and technical support from Venlo, The Netherlands.

Our headquarters is located in Tokyo, Japan.

Where is our production site?

Most of our materials are compounded locally in EU.

Other production sites include Japan, China and Singapore.

How to buy?

Contact the distributor who sent you this newsletter or write to us at info@teijin.nl.

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Disclaimer:

All information found in this newsletter is provided by Teijin Kasei Europe B.V. in good faith and without any form of guaranty. Material properties are taken using in-house test methods.

We recommend our customers to test our materials to their own suitability for their own intended usage.

The information is subject to change without any prior notice.