

液状透明封止樹脂 2液型

(Liquid Transparent Encapsulant )

| 製品名 |                    |               | 特長                   | 混合重量比<br>(A/B)                                     | 粘度 ( @ 25℃ (mPa・s) ) |          | 混合粘度<br>( @ 25℃ ) | 硬化条件   | ガラス転移点Tg<br>(℃@TMA)   |                                     |        |
|-----|--------------------|---------------|----------------------|----------------------------------------------------|----------------------|----------|-------------------|--------|-----------------------|-------------------------------------|--------|
| DIP | SMD                | Product Name  |                      |                                                    | 特徴                   | Features |                   |        |                       | 主剤                                  | 硬化剤    |
|     |                    |               |                      |                                                    |                      |          |                   |        |                       | Viscosity ( @ 25℃ (mPa・s)<br>Part A | Part B |
|     | outdoor            | IK0010        | 優れた色安定性<br>屋外SMDの標準品 | Good Color stability<br>For Outdoor RGB SMD        | 100/90~125           | 2,700    | 2,250             | 2,500  | 135℃/1hr+<br>150℃/4hr | 155                                 |        |
|     | outdoor            | IK0085/FL6085 | 優れた耐湿性<br>屋外SMDの標準品  | Good Moisture resistibility<br>For Outdoor RGB SMD | 260/100/90           | 50,000   | 200               | 4,500  | 135℃/1hr+<br>150℃/4hr | 170                                 |        |
|     | Indoor             | HL2002        | 優れた色安定性<br>屋内SMDの標準品 | Good Color stability<br>General use for Indoor SMD | 100/95               | 3,000    | 130               | 600    | 135℃/1hr+<br>150℃/4hr | 130                                 |        |
|     | Indoor             | IK3001/FL6004 | 優れた耐湿性<br>小面積用SMD    | Good Moisture resistibility<br>For Indoor RGB SMD  | 100:10:150           | 1,200    | 9,000             | 10,000 | 90℃・1hr<br>150℃/3hr   | 144                                 |        |
| ○   |                    | HL8800C       | 超薄型LEDの汎用品           | General use for DIP                                | 100/100              | 1,800    | 250               | 650    | 125℃/1hr+<br>125℃/4hr | 147                                 |        |
|     | ○                  | IK8000        | 優れた色安定性<br>高輝度LED用   | high weather<br>resistance                         | 100/100              | 250      | 1,000             | 430    | 120℃/16hr             | 155                                 |        |
| ○   |                    | IK8038        | 高硬化型                 | Post cure less                                     | 100/100              | 10,000   | 160               | 1,000  | 135℃/×1hr             | 138                                 |        |
|     | Optical<br>sensors | IK8020-5      | 低応力型<br>光センサー        | Low stress<br>for optical sensor                   | 100/35               | 230      | 10,000            | 5,500  | 120℃/16hr             | 80                                  |        |

LEDチップ接着剤

(Die attach material)

| DIP            | SMD | Product Name |            | Features                                             | Mix ratio<br>( by weight ) | Color (A/B)          | Storage<br>condition             | Mixed Viscosity<br>@ 25℃ (mPas) | Cure Schedule            | Glass Transition Tg<br>(°C/TMA) |
|----------------|-----|--------------|------------|------------------------------------------------------|----------------------------|----------------------|----------------------------------|---------------------------------|--------------------------|---------------------------------|
| ○              | ○   | EH1600       | 無色透明 1液接着剤 | Adhesion for LED chip<br>Non filler type             | one<br>component           | Clear                | -40℃                             | 2,500 - 3,300                   | 170 - 180 C<br>/40-60min | 155                             |
| Two components |     | EH1600-ALO   | 放熱樹脂タイプ    | Adhesion for LED chip<br>Alumina filler Loading type | 85/15                      | White<br>Milky White | 3 months @ RT<br>3 Months @ -20℃ | 4,000 - 5,500                   | 150 - 170 C<br>/60min    | 150                             |

可視光カット用封止樹脂/着色剤

(Liquid Encapsulant for visible light cut)

| 可視光カット用正濁剤/着色剤 (Liquid Dispersant for Visible Light Cut) |     |              |                |                         |                            |                         |        |                          |                       |     |
|----------------------------------------------------------|-----|--------------|----------------|-------------------------|----------------------------|-------------------------|--------|--------------------------|-----------------------|-----|
| Lamp                                                     | SMD | Product Name | Features       |                         | Mix ratio<br>( by weight ) | Viscosity @ 25℃ (mPa・s) |        | Mixed Viscosity<br>@ 25℃ | Transmittance WL (nm) |     |
|                                                          |     |              |                |                         |                            | Part A                  | Part B |                          | 5%                    | 80% |
| ○                                                        |     | IK8038-820   | IK8038の可視光カット品 | IK8038 Visible cut type | 100/100                    | 11,000                  | 160    | 1,000                    | 835                   | 900 |
|                                                          | ○   | HL2002-850   | HL2002の可視光カット品 | HL2002 Visible cut type | 100/95                     | 3,500                   | 130    | 600                      | 846                   | 950 |
| ○                                                        | ○   | IKMB-BK-T1   | 可視光カット着色剤      | Epoxy base dye          | 10phr to Part A            | 6,500                   |        | Epoxy resin              |                       |     |

光分散剤

(Diffuser for Liquid Encapsulant)

|                        | Product Name  |         | Features                      | Mix ratio<br>( Diff / Resins ) | Viscosity (mPas) | Filler Cont.<br>(Wt.%) | Particle size<br>Ave.(µm) | Filler type |
|------------------------|---------------|---------|-------------------------------|--------------------------------|------------------|------------------------|---------------------------|-------------|
| Paste type             | IKMB-D2X      | ペーストタイプ | Diffuser good color stability | 2- 5 / 100                     | 2,000            | 50                     | 3 - 10                    | Silica      |
| Powder                 | FL6083        | 粉体タイプ   | Silica filler of MB-D2X       | 30-40 / 100                    | Powder           | 100                    | 3 - 10                    | Silica      |
| Anti reflective Filler | AR2001/AR2002 | 低反射剤    | Low reflective filler         | 10-20 / 100                    | powder           | 100                    | 4/8                       | Silica      |

離型剤

(Mold release agent)

|              | Product Name |           | Features                        | 粘度(Viscosity) | 比重 (S.G.)          | 固形分  | 主成分<br>(Main Component)    | 主な溶剤(Solvent) | 他    |
|--------------|--------------|-----------|---------------------------------|---------------|--------------------|------|----------------------------|---------------|------|
| Liquid type  | AC4368E      | シリコーン系離型剤 | Silicone type                   | 15mPa・s       | 0.69-0.74<br>(25℃) | 7-9% | シリコーンオイル<br>(Silicone Oil) | n-Hexane      | 非腐食性 |
| Aerosol type | ハイリリース S-2   | スプレー缶     | Aerosol Spray type of<br>AC4368 | —             | —                  | 4-6% | シリコーンオイル<br>(Silicone Oil) | LPG/n-Hexane  | 非腐食性 |

着色剤 (Coloring dye for Epoxy resin)

| Color type | Product Name | Product Name | Product Name |
|------------|--------------|--------------|--------------|
| Red        | IKMB-R2      | IKMB-R10     | A8002        |
| Green      | IKMB-G2      | IKMB-GT-2    | AI3525       |
| Blue       | IKMB-B2      |              |              |
| Yellow     | IKMB-Y2      | IKMB-YT-3    | AI3517       |
| Umber      | IKMB-UT-2    | IKMB-UT-3    |              |
| Black      | IKMB-BK-H    |              |              |