

# LUPOY GP-5006AF



## Applications

Electric/electronic housing etc.

## Description

LUPOY GP-5006AF flame resistant resin, rated UL 94 V-0 at 1.7mm, has high heat resistance and high impact strength. GP-5006AF provides higher heat resistance than GN-series.

| Properties                  | Test Method | Test Condition | Unit                 | Value                    |
|-----------------------------|-------------|----------------|----------------------|--------------------------|
| <b>Physical</b>             |             |                |                      |                          |
| Specific Gravity            | ASTM D792   |                | -                    | 1.17                     |
| Mold Shrinkage              | ASTM D955   |                | %                    | 0.5~0.8                  |
| <b>Mechanical</b>           |             |                |                      |                          |
| Tensile Strength at yield   | ASTM D638   |                | kg/cm <sup>2</sup>   | 540                      |
|                             |             |                | MPa                  | 53                       |
|                             |             |                | psi                  | 7680                     |
| Elongation at break         | ASTM D638   |                | %                    | 60                       |
| Flexural Strength           | ASTM D790   |                | kg/cm <sup>2</sup>   | 780                      |
|                             |             |                | MPa                  | 76                       |
|                             |             |                | psi                  | 11100                    |
| Flexural modulus            | ASTM D790   |                | kg/cm <sup>2</sup>   | 22000                    |
|                             |             |                | MPa                  | 2155                     |
|                             |             |                | 10 <sup>3</sup> ×psi | 315                      |
| IZOD Impact Strength        | ASTM D256   | Noched, 23°C   | kg·cm/cm             | 55                       |
|                             |             |                | J/m                  | 540                      |
|                             |             |                | ft·lb/in             | 10.1                     |
| IZOD Impact Strength        | ASTM D256   | Noched, -30°C  | kg·cm/cm             | -                        |
|                             |             |                | J/m                  | -                        |
|                             |             |                | ft·lb/in             | -                        |
| Rockwell Hardness           | ASTM D785   | R-Scale        | -                    | 108                      |
| <b>Thermal</b>              |             |                |                      |                          |
| Melt Flow Index(MI)         | ASTM D1238  | 250°C, 2.16kgf | g/10min              | 7                        |
| Heat Deflection Temperature | ASTM D648   | 1.82 MPa       | °C                   | 104                      |
|                             |             |                | °F                   | 220                      |
|                             |             | 0.45 MPa       | °C                   | -                        |
|                             |             |                | °F                   | -                        |
| <b>Flammability</b>         |             |                |                      |                          |
| Flame Retardancy            | UL 94       |                | Class<br>(Thick.:mm) | V-0(1.7mm)<br>5VA(3.0mm) |
| <b>Characteristics</b>      |             |                |                      |                          |
| High flow                   |             |                |                      |                          |