

**LUPOY NS5000CU**

(PC+ABS)

LG Chem

| Processing/Physical Characteristics | Value  | Unit    | Test Standard |
|-------------------------------------|--------|---------|---------------|
| <b>ASTM Data</b>                    |        |         |               |
| Melt Flow Index, MFI                | 5.2    | g/10min | ASTM D 1238   |
| Temperature                         | 250    | °C      | -             |
| Load                                | 2.16   | kg      | -             |
| Mold Shrinkage, MD                  | 0.0065 | mm/mm   | ASTM D 955    |

| Mechanical properties                | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| <b>ASTM Data</b>                     |       |      |               |
| Tensile Strength at Yield            | 54    | MPa  | ASTM D 638    |
| Elongation at Break                  | 95    | %    | ASTM D 638    |
| Flexural Modulus                     | 2070  | MPa  | ASTM D 790    |
| Flexural Strength                    | 77.5  | MPa  | ASTM D 790    |
| Rockwell Hardness                    | R 115 | -    | ASTM D 785    |
| Izod Impact notched, 1/4 in          | 451   | J/m  | ASTM D 256    |
| Izod Impact notched, Low-Temperature | 206   | J/m  | ASTM D 256    |
| Temperature                          | -10   | °C   | -             |

| Thermal properties | Value              | Unit | Test Standard |
|--------------------|--------------------|------|---------------|
| <b>ASTM Data</b>   |                    |      |               |
| DTUL @ 264 psi     | 115 <sup>[1]</sup> | °C   | ASTM D 648    |
| 1: 6.4 mm          |                    |      |               |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1150  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 80 - 100  | °C   | -             |
| Pre-drying - Time                           | 4 - 6     | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 250 - 270 | °C   | -             |
| Mold temperature                            | 60 - 80   | °C   | -             |
| Zone 1                                      | 240 - 260 | °C   | -             |
| Zone 2                                      | 250 - 270 | °C   | -             |
| Zone 3                                      | 250 - 270 | °C   | -             |
| Nozzle temperature                          | 250 - 270 | °C   | -             |
| Screw speed                                 | 40 - 70   | rpm  | -             |
| Back pressure                               | 0.5 - 1.5 | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America