

# Generic LCP - Mineral

Liquid Crystal Polymer

Generic

Message:

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This information is provided for comparative purposes only.

| General Information                               |                   |                   |             |
|---------------------------------------------------|-------------------|-------------------|-------------|
| Filler / Reinforcement                            | Mineral filler    |                   |             |
| Physical                                          | Nominal Value     | Unit              | Test Method |
| Density (23°C)                                    | 1.63 - 1.81       | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage (23°C)                          | -0.010 - 0.50     | %                 | ISO 294-4   |
| Mechanical                                        | Nominal Value     | Unit              | Test Method |
| Tensile Modulus (23°C)                            | 7500 - 11500      | MPa               | ISO 527-2   |
| Tensile Stress                                    |                   |                   |             |
| Fracture, 23°C                                    | 105 - 160         | MPa               | ISO 527-2   |
| 23°C                                              | 62.1 - 127        | MPa               | ASTM D638   |
| Tensile Strain (Break, 23°C)                      | 3.0 - 5.0         | %                 | ISO 527-2   |
| Flexural Modulus (23°C)                           | 9000 - 11900      | MPa               | ISO 178     |
| Flexural Stress (23°C)                            | 120 - 180         | MPa               | ISO 178     |
| Impact                                            | Nominal Value     | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)             | 2.0 - 59          | kJ/m <sup>2</sup> | ISO 179     |
| Notched Izod Impact (23°C)                        | 3.0 - 27          | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                           | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 190 - 246         | °C                | ISO 75-2/A  |
| Melting Temperature                               | 280 - 351         | °C                | ISO 11357-3 |
| Electrical                                        | Nominal Value     | Unit              | Test Method |
| Volume Resistivity (23°C)                         | 1.0E+12 - 3.0E+16 | ohms · cm         | IEC 60093   |
| Dielectric Strength (23°C)                        | 21 - 46           | kV/mm             | IEC 60243-1 |
| Relative Permittivity (23°C)                      | 3.51              |                   | IEC 60250   |
| Dissipation Factor (23°C)                         | 9.5E-3 - 0.031    |                   | IEC 60250   |
| Comparative Tracking Index                        | 174 - 201         | V                 | IEC 60112   |
| Injection                                         | Nominal Value     | Unit              |             |
| Drying Temperature                                | 149 - 170         | °C                |             |
| Drying Time                                       | 3.0 - 8.0         | hr                |             |
| Hopper Temperature                                | 25.0 - 25.4       | °C                |             |
| Rear Temperature                                  | 275 - 341         | °C                |             |
| Middle Temperature                                | 280 - 326         | °C                |             |
| Front Temperature                                 | 285 - 332         | °C                |             |
| Nozzle Temperature                                | 295 - 355         | °C                |             |

|                        |            |     |
|------------------------|------------|-----|
| Processing (Melt) Temp | 290 - 381  | °C  |
| Mold Temperature       | 79.4 - 100 | °C  |
| Injection Pressure     | 99.5 - 100 | MPa |

#### Injection instructions

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