

# SEPAZ™ C245GP

Liquid Crystal Polymer

Mando Advanced Materials Co., Ltd.

## Message:

SEPAZ™ C245GP is a Liquid Crystal Polymer (LCP) product filled with 45% glass fiber. It is available in Asia Pacific. Primary characteristic: flame rated.

| General Information                                     |                                  |                   |             |
|---------------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass Fiber,45% Filler by Weight |                   |             |
| Physical                                                | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                        | 1.74                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage <sup>1</sup>                          |                                  |                   | ASTM D955   |
| Flow                                                    | 0.050                            | %                 |             |
| Across Flow                                             | 0.50                             | %                 |             |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method |
| Tensile Strength                                        | 135                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 0.90                             | %                 | ASTM D638   |
| Flexural Modulus                                        | 18300                            | MPa               | ASTM D790   |
| Flexural Strength                                       | 191                              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact                                     | 59                               | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 295                              | °C                | ASTM D648   |
| Peak Melting Temperature                                | 352                              | °C                | ASTM D2133  |
| Electrical                                              | Nominal Value                    | Unit              | Test Method |
| Surface Resistivity                                     | 1.0E+15                          | ohms              | ASTM D257   |
| Volume Resistivity                                      | 1.0E+15                          | ohms·cm           | ASTM D257   |
| Dielectric Strength (1.60 mm)                           | 21                               | kV/mm             | ASTM D149   |
| Dielectric Constant                                     | 4.30                             |                   | ASTM D150   |
| Dissipation Factor                                      | 0.025                            |                   | ASTM D150   |
| Flammability                                            | Nominal Value                    | Unit              | Test Method |
| Flame Rating                                            | V-0                              |                   | UL 94       |
| Injection                                               | Nominal Value                    | Unit              |             |
| Processing (Melt) Temp                                  | 360 to 370                       | °C                |             |
| Mold Temperature                                        | 30.0 to 160                      | °C                |             |
| NOTE                                                    |                                  |                   |             |

1. 60°C Mold Temperature

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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