

# CP PRYME® Nylon 6 N110L

Polyamide 6  
Chase Plastics Services Inc.

Message:

CP PRYME® Nylon 6 N110L is a Polyamide 6 (Nylon 6) product filled with 10% glass fiber. It is available in North America.

| General Information                |                                  |                   |             |
|------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement             | Glass Fiber,10% Filler by Weight |                   |             |
| Forms                              | Pellets                          |                   |             |
| Physical                           | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                   | 1.22                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.60                             | %                 | ASTM D955   |
| Water Absorption (24 hr)           | 1.4                              | %                 | ASTM D570   |
| Hardness                           | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 120                              |                   | ASTM D785   |
| Mechanical                         | Nominal Value                    | Unit              | Test Method |
| Tensile Strength                   | 103                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 4.0                              | %                 | ASTM D638   |
| Flexural Modulus                   | 2900                             | MPa               | ASTM D790   |
| Flexural Strength                  | 152                              | MPa               | ASTM D790   |
| Impact                             | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 59                               | J/m               | ASTM D256   |
| Thermal                            | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load  |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed               | 213                              | °C                |             |
| 1.8 MPa, Unannealed                | 196                              | °C                |             |
| CLTE - Flow                        | 4.3E-5                           | cm/cm/°C          | ASTM D696   |
| Electrical                         | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                 | 1.0E+15                          | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup>   | 20                               | kV/mm             | ASTM D149   |
| NOTE                               |                                  |                   |             |
| 1.                                 | Method A (Short-Time)            |                   |             |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: [sales@su-jiao.com](mailto:sales@su-jiao.com)

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

