

# EL-Pro™ P602F

Polypropylene Homopolymer  
SCG Chemicals Co., Ltd.

Message:  
EL-PRO P600F is a Homopolymer polypropylene resin without slip and antiblock agent.

| General Information                       |                         |                   |             |
|-------------------------------------------|-------------------------|-------------------|-------------|
| Features                                  | Fast Molding Cycle      |                   |             |
|                                           | Food Contact Acceptable |                   |             |
|                                           | Homopolymer             |                   |             |
|                                           | Opticals                |                   |             |
| Uses                                      | Blending                |                   |             |
|                                           | Food Packaging          |                   |             |
|                                           | Packaging               |                   |             |
| Agency Ratings                            | FDA 21 CFR 177.1520     |                   |             |
| Forms                                     | Pellets                 |                   |             |
| Processing Method                         | Blow Molding            |                   |             |
| Physical                                  | Nominal Value           | Unit              | Test Method |
| Density                                   | 0.910                   | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10                      | g/10 min          | ASTM D1238  |
| Mechanical                                | Nominal Value           | Unit              | Test Method |
| Flexural Modulus                          | 1670                    | MPa               | ASTM D790   |
| Films                                     | Nominal Value           | Unit              | Test Method |
| Secant Modulus                            |                         |                   | ASTM D882   |
| 2% Secant, MD : 25 µm                     | 686                     | MPa               |             |
| 2% Secant, TD : 25 µm                     | 539                     | MPa               |             |
| Tensile Strength                          |                         |                   | ASTM D882   |
| MD : Yield,25 µm                          | 28.4                    | MPa               |             |
| TD : Yield,25 µm                          | 19.6                    | MPa               |             |
| MD : Break, 25 µm                         | 27.5                    | MPa               |             |
| TD : Break, 25 µm                         | 25.5                    | MPa               |             |
| Tensile Elongation                        |                         |                   | ASTM D882   |
| MD : Break, 25 µm                         | 850                     | %                 |             |
| TD : Break, 25 µm                         | 770                     | %                 |             |
| Impact                                    | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 25                      | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value           | Unit              | Test Method |

|                                                          |               |      |             |
|----------------------------------------------------------|---------------|------|-------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 110           | °C   | ASTM D648   |
| Brittleness Temperature                                  | < -10.0       | °C   | ASTM D746   |
| Vicat Softening Temperature                              | 155           | °C   | ASTM D1525  |
| Melting Temperature                                      | 160           | °C   | ASTM D2117  |
| Optical                                                  | Nominal Value | Unit | Test Method |
| Gloss                                                    | 75            |      | ASTM D2457  |
| Haze                                                     | 8.0           | %    | ASTM D1003  |
| Extrusion                                                | Nominal Value | Unit |             |
| Melt Temperature                                         | 190 to 210    | °C   |             |

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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

