

# Durolon® G2530 PR001

Polycarbonate

Unigel Plásticos

## Message:

Durolon® G2530 PR001 is a Polycarbonate (PC) material filled with 30% glass fiber. It is available in Europe, Latin America, or North America for injection molding.

Important attributes of Durolon® G2530 PR001 are:

Good Dimensional Stability

Heat Resistant

High Hardness

| General Information                                     |                                  |                   |                       |
|---------------------------------------------------------|----------------------------------|-------------------|-----------------------|
| Filler / Reinforcement                                  | Glass Fiber,30% Filler by Weight |                   |                       |
| Features                                                | Good Dimensional Stability       |                   |                       |
|                                                         | Good Strength                    |                   |                       |
|                                                         | High Hardness                    |                   |                       |
|                                                         | High Heat Resistance             |                   |                       |
| Appearance                                              | Black                            |                   |                       |
| Forms                                                   | Pellets                          |                   |                       |
| Processing Method                                       | Injection Molding                |                   |                       |
| Physical                                                | Nominal Value                    | Unit              | Test Method           |
| Specific Gravity                                        | 1.42                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183   |
| Molding Shrinkage - Flow                                | 0.15 to 0.60                     | %                 | ASTM D955             |
| Water Absorption (23°C, 24 hr)                          | 0.11                             | %                 | ASTM D570             |
| Hardness                                                | Nominal Value                    | Unit              | Test Method           |
| Rockwell Hardness (M-Scale)                             | 92                               |                   | ASTM D785             |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method           |
| Tensile Modulus                                         | 8100                             | MPa               | ASTM D638, ISO 527-2  |
| Tensile Strength (Break)                                | 120                              | MPa               | ASTM D638, ISO 527-2  |
| Tensile Elongation (Break)                              | 3.0                              | %                 | ASTM D638, ISO 527-2  |
| Flexural Modulus                                        | 8530                             | MPa               | ASTM D790, ISO 178    |
| Flexural Strength                                       | 170                              | MPa               | ASTM D790, ISO 178    |
| Impact                                                  | Nominal Value                    | Unit              | Test Method           |
| Notched Izod Impact (3.20 mm)                           | 160                              | J/m               | ASTM D256             |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method           |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 144                              | °C                | ASTM D648, ISO 75-2/A |
| CLTE - Flow                                             | 2.3E-5                           | cm/cm/°C          | ASTM D696             |
| Electrical                                              | Nominal Value                    | Unit              | Test Method           |
| Volume Resistivity                                      | 1.0E+16                          | ohms · cm         | ASTM D257             |
| Dielectric Strength (1.60 mm)                           | 22                               | kV/mm             | ASTM D149             |

|                                          |               |           |                |
|------------------------------------------|---------------|-----------|----------------|
| Dielectric Constant                      |               | ASTM D150 |                |
| 60 Hz                                    | 3.10          |           |                |
| 1 MHz                                    | 2.95          |           |                |
| Dissipation Factor                       |               | ASTM D150 |                |
| 60 Hz                                    | 8.0E-4        |           |                |
| 1 MHz                                    | 9.0E-3        |           |                |
| Arc Resistance                           | 110           | sec       | ASTM D495      |
| Flammability                             | Nominal Value | Unit      | Test Method    |
| Glow Wire Ignition Temperature (3.20 mm) | 960           | °C        | IEC 60695-2-13 |
| Injection                                | Nominal Value | Unit      |                |
| Drying Temperature                       | 120           | °C        |                |
| Drying Time                              | 4.0           | hr        |                |
| Rear Temperature                         | 270           | °C        |                |
| Middle Temperature                       | 280           | °C        |                |
| Front Temperature                        | 290           | °C        |                |
| Nozzle Temperature                       | 280           | °C        |                |
| Processing (Melt) Temp                   | 240 to 300    | °C        |                |
| Mold Temperature                         | 80.0 to 100   | °C        |                |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

