

# Carbotex K-30FRT12

Polycarbonate  
Kotec Corporation

Message:

Carbotex K-30FRT12 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in Africa & Middle East, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Medium Viscosity

| General Information                                     |                   |                   |             |
|---------------------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                                           | E146413-223402    |                   |             |
| Additive                                                | Flame Retardant   |                   |             |
| Features                                                | Flame Retardant   |                   |             |
|                                                         | General Purpose   |                   |             |
|                                                         | Medium Viscosity  |                   |             |
| Uses                                                    | General Purpose   |                   |             |
| Appearance                                              | Clear/Transparent |                   |             |
| Forms                                                   | Pellets           |                   |             |
| Processing Method                                       | Injection Molding |                   |             |
| Physical                                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                        | 1.20              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)                | 12                | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                | 0.50 to 0.70      | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                          | < 0.20            | %                 | ASTM D570   |
| Mechanical                                              | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Break)                                | 63.0              | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 120               | %                 | ASTM D638   |
| Flexural Modulus                                        | 2160              | MPa               | ASTM D790   |
| Flexural Strength                                       | 85.0              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                     | 830               | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 133               | °C                | ASTM D648   |
| Electrical                                              | Nominal Value     | Unit              | Test Method |
| Volume Resistivity                                      | 1.0E+16           | ohms · cm         | ASTM D257   |
| Dielectric Strength (1.60 mm)                           | 20                | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                             | 2.90              |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                              | 9.0E-3            |                   | ASTM D150   |

|                         |               |      |             |
|-------------------------|---------------|------|-------------|
| Arc Resistance          | 110           | sec  | ASTM D495   |
| Flammability            | Nominal Value | Unit | Test Method |
| Flame Rating (3.00 mm)  | V-0           |      | UL 94       |
| Optical                 | Nominal Value | Unit | Test Method |
| Refractive Index        | 1.580         |      | ASTM D542   |
| Transmittance (3000 μm) | 89.0          | %    | ASTM D1003  |
| Haze (3000 μm)          | < 1.0         | %    | ASTM D1003  |

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

