

# EXCELLOY CKF51G30

Polycarbonate + ABS

Techno Polymer Co, Ltd.

## Message:

EXCELLOY CKF51G30 is a Polycarbonate + ABS (PC+ABS) product filled with 30% glass fiber. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

Flame Rated

Flame Retardant

| General Information                                |                                  |                   |             |
|--|----------------------------------|-------------------|-------------|
| UL YellowCard                                      | E54297-100138337                 |                   |             |
| Filler / Reinforcement                             | Glass Fiber,30% Filler by Weight |                   |             |
| Additive   | Flame Retardant                  |                   |             |
| Features   | Flame Retardant                  |                   |             |
| UL File Number                                     | E54297                           |                   |             |
| Processing Method                                  | Injection Molding                |                   |             |
| Physical   | Nominal Value                    | Unit              | Test Method |
| Density  | 1.42                             | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)          | 13                               | g/10 min          | ISO 1133    |
| Molding Shrinkage                                  | 0.10 to 0.20                     | %                 | ISO 294-4   |
| Hardness   | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                        | 115                              |                   | ISO 2039-2  |
| Mechanical   | Nominal Value                    | Unit              | Test Method |
| Tensile Stress (Yield)                             | 106                              | MPa               | ISO 527-2   |
| Flexural Modulus                                   | 7430                             | MPa               | ISO 178     |
| Flexural Stress                                    | 140                              | MPa               | ISO 178     |
| Impact   | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength                     | 6.0                              | kJ/m <sup>2</sup> | ISO 179     |
| Thermal  | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 111                              | °C                | ISO 75-2/B  |
| Flammability                                       | Nominal Value                    |                   | Test Method |
| Flame Rating                                       |                                  |                   | UL 94       |
| 1.50 mm, ALL                                       | V-0                              |                   |             |
| 2.50 mm, ALL                                       | 5VB                              |                   |             |
| Injection  | Nominal Value                    | Unit              |             |
| Drying Temperature                                 | 100 to 110                       | °C                |             |
| Drying Time  | 2.0 to 5.0                       | hr                |             |
| Rear Temperature                                   | 190 to 260                       | °C                |             |
| Middle Temperature                                 | 190 to 260                       | °C                |             |

|                   |              |    |
|-------------------|--------------|----|
| Front Temperature | 190 to 260   | °C |
| Mold Temperature  | 40.0 to 80.0 | °C |

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