

# EXCELLOY CKF51

Polycarbonate + ABS

Techno Polymer Co, Ltd.

Message:

EXCELLOY CKF51 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product. It can be processed by injection molding and is available in North America or Asia Pacific.  
Features include:  
flame retardant/rated flame  
Flame Retardant

| General Information                                |                   |                   |             |
|----------------------------------------------------|-------------------|-------------------|-------------|
| UL YellowCard                                      | E54297-100127763  |                   |             |
| Additive                                           | Flame retardancy  |                   |             |
| Features                                           | Flame retardancy  |                   |             |
| UL File Number                                     | E54297            |                   |             |
| Processing Method                                  | Injection molding |                   |             |
| Physical                                           | Nominal Value     | Unit              | Test Method |
| Density                                            | 1.22              | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)          | 58                | g/10 min          | ISO 1133    |
| Molding Shrinkage                                  | 0.40 - 0.70       | %                 | ISO 294-4   |
| Hardness                                           | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                        | 110               |                   | ISO 2039-2  |
| Mechanical                                         | Nominal Value     | Unit              | Test Method |
| Tensile Stress (Yield)                             | 53.0              | MPa               | ISO 527-2   |
| Flexural Modulus                                   | 2290              | MPa               | ISO 178     |
| Flexural Stress                                    | 80.0              | MPa               | ISO 178     |
| Impact                                             | Nominal Value     | Unit              | Test Method |
| Charpy Notched Impact Strength                     | 50                | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                            | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 93.0              | °C                | ISO 75-2/B  |
| Flammability                                       | Nominal Value     |                   | Test Method |
| Flame Rating                                       |                   |                   | UL 94       |
| 1.50 mm, ALL                                       | V-0               |                   | UL 94       |
| 2.50 mm, ALL                                       | 5VB               |                   | UL 94       |
| Injection                                          | Nominal Value     | Unit              |             |
| Drying Temperature                                 | 90.0 - 100        | °C                |             |
| Drying Time                                        | 2.0 - 5.0         | hr                |             |
| Rear Temperature                                   | 190 - 260         | °C                |             |
| Middle Temperature                                 | 190 - 260         | °C                |             |
| Front Temperature                                  | 190 - 260         | °C                |             |

|                  |             |    |
|------------------|-------------|----|
| Mold Temperature | 40.0 - 80.0 | °C |
|------------------|-------------|----|

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