

**FPC 75**

ABS

Federal Plastics Corp.

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|--------------|-------------|----------------------|
| <b>ASTM Data</b>                           |              |             |                      |
| Melt Flow Index, MFI                       | 5            | g/10min     | ASTM D 1238          |

| <b>Mechanical properties</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>             |              |             |                      |
| Tensile Strength at Yield    | 41.4         | MPa         | ASTM D 638           |
| Flexural Modulus             | 2206         | MPa         | ASTM D 790           |
| Flexural Strength            | 68.9         | MPa         | ASTM D 790           |
| Izod Impact notched, 1/8 in  | 42.7         | J/m         | ASTM D 256           |

| <b>Thermal properties</b>            | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--------------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>                     |              |             |                      |
| UL 94 Flame rating                   | V-0          | -           | UL 94                |
| Thickness tested                     | 3.18         | mm          | -                    |
| Coefficient of Thermal Expansion, MD | 54           | E-6/K       | ASTM D 696           |
| DTUL @ 66 psi                        | 104          | °C          | ASTM D 648           |
| DTUL @ 264 psi                       | 96.1         | °C          | ASTM D 648           |
| Glass Transition Temperature         | 105          | °C          | ASTM E 1356          |

| <b>Electrical properties</b>    | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---------------------------------|--------------|-------------|----------------------|
| <b>ASTM Data</b>                |              |             |                      |
| Dielectric Strength, Short Time | 14.2         | kV/mm       | ASTM D 149           |
| Dissipation Factor, 1 MHz       | 0.013        | -           | ASTM D 150           |
| Dielectric Constant, 1 MHz      | 5.2          | -           | ASTM D 150           |
| Arc Resistance                  | 180          | s           | ASTM D 495           |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Density                 | 1040         | kg/m <sup>3</sup> | ASTM D 792           |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America