

# BASF Bycolene 476L

BASF Bycolene 476L is a material with an HB flammability rating, characterized by high flow, good stretchability, and high impact resistance, suitable for injection molding, extrusion, and sheet extrusion processes, and commonly applied in electrical housings, refrigerators, drawers, and various injection molding and extrusion applications.

| Physical property           |                 | Standard | Value | Unit      |
|-----------------------------|-----------------|----------|-------|-----------|
| Melt Index                  | 200°C 5kg       | ISO 1133 | 5     | cm³/10min |
| Mechanical behavior         |                 | Standard | Value | Unit      |
| Tensile Strength            | Yield           | ISO 527  | 23    | MPa       |
| Thermal                     |                 | Standard | Value | Unit      |
| Vicat Softening Temperature | 50°C/hr 50N     | ISO 306  | 90    | °C        |
| Flammability                |                 | Standard | Value | Unit      |
| Flame Rating                | All Color 1.5mm | UL94     | HB    |           |
| Flame Rating                | All Color 3.0mm | UL94     | HB    |           |
| UL                          |                 | Standard | Value | Unit      |
| UL FlameRating              | ALL 1.5mm       | UL94     | HB    |           |
| UL FlameRating              | ALL 3.0mm       | UL94     | HB    |           |
| HWI                         | ALL 1.5mm       | UL 746A  | 4     | PLC       |
| HWI                         | ALL 3.0mm       | UL 746A  | 3     | PLC       |
| HAI                         | ALL 1.5mm       | UL 746A  | 2     | PLC       |
| HAI                         | ALL 3.0mm       | UL 746A  | 0     | PLC       |
| RTI Elec                    | ALL 1.0mm       | UL 746B  | 50    | °C        |
| RTI Elec                    | ALL 1.5mm       | UL 746B  | 50    | °C        |
| RTI Elec                    | ALL 3.0mm       | UL 746B  | 50    | °C        |
| RTI Imp                     | ALL 1.0mm       | UL 746B  | 50    | °C        |

|                            |           |                |          |       |
|----------------------------|-----------|----------------|----------|-------|
| RTI Imp                    | ALL 1.5mm | UL 746B        | 50       | °C    |
| RTI Imp                    | ALL 3.0mm | UL 746B        | 50       | °C    |
| RTI Str                    | ALL 1.0mm | UL 746B        | 50       | °C    |
| RTI Str                    | ALL 1.5mm | UL 746B        | 50       | °C    |
| RTI Str                    | ALL 3.0mm | UL 746B        | 50       | °C    |
| Comparative Tracking Index |           | IEC 60112      | 2        | PLC   |
| Dielectric Strength        |           | ASTM D149      | 46       | KV/mm |
| HVTR                       |           | UL 746A        | 2        | PLC   |
| Dimensional Stability      |           | UL746          | 0        | %     |
| Volume Resistivity         |           | ASTM D257      | 1.00E+14 | Ω .cm |
| Arc Resistance             |           | ASTM D495      | 6        | PLC   |
| GWFI                       | 1.0mm     | IEC 60695-2-12 | 700      | °C    |
| GWFI                       | 1.5mm     | IEC 60695-2-12 | 700      | °C    |
| GWFI                       | 3.0mm     | IEC 60695-2-12 | 700      | °C    |
| GWIT                       | 1.0mm     | IEC 60695-2-13 | 725      | °C    |
| GWIT                       | 1.5mm     | IEC 60695-2-13 | 725      | °C    |
| GWIT                       | 3.0mm     | IEC 60695-2-13 | 725      | °C    |