

iq.ul.com

PROSPECTOR®

View additional material information including performance and processing data

CLICK TO CONTINUE

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

E41179

Component - Plastics

Guide Information

MITSUBISHI ENGINEERING-PLASTICS CORP

ENVIRONMENT & QUALITY ASSURANCE DEPT, SHIODOME SUMITOMO-BLDG 25TH FL, 1-9-2 HIGASHI-SHINBASHI, MINATO-KU TOKYO 105-0021 JP

FPR4500+
Polycarbonate (PC) "Iupilon", furnished as pellets


| <u>Color</u> | <u>Min. Thk (mm)</u> | <u>Flame Class</u> | <u>HWI</u> | <u>HAJ</u> | <u>RTI Elec</u> | <u>RTI Imp</u> | <u>RTI Str</u> |
|--|--------------------------|------------------------|--|------------|---------------------|--------------------|--------------------|
| ALL | 0.40 | V-2 | - | - | 80 | 80 | 80 |
| | 0.80 | V-0 | - | - | 80 | 80 | 80 |
| | 3.0 | V-0 | - | - | 80 | 80 | 80 |
| Comparative Tracking Index (CTI): - | | | Inclined Plane Tracking (IPT) kV: - | | | | |
| Dielectric Strength (kV/mm): - | | | Volume Resistivity (10 ^x ohm-cm): - | | | | |
| High-Voltage Arc Tracking Rate (HVTR): - | | | Surface Resistivity (10 ^x ohms/square): - | | | | |
| Dimensional Stability (%): - | | | High Volt, Low Current Arc Resis (D495): - | | | | |
| + - Suffix optional, exceptions: The following cannot be used as optional suffixes: "NF" for grade NXG5050, "N" for grade NXG5030, "N" for grade MB2112+, "S1" for grade F20-54, "V" for grades S-2000+(f1), S-2001+(f1), S-2003+(f1), the last letter "L" for grade CFH2520+, "W" for ELV2010 included in Grade ELV20(a5)+. | | | | | | | |

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1976-03-01

Last Revised: 2019-11-26

© 2020 UL LLC



| IEC and ISO Test Methods | | | | |
|--------------------------------|-----------------|-------------------|----------|-----------|
| Test Name | Test Method | Units | Thk (mm) | Value |
| Flammability | IEC 60695-11-10 | Class (color) | 0.40 | V-2 (ALL) |
| | | | 0.80 | V-0 (ALL) |
| | | | 3.0 | V-0 (ALL) |
| Glow-Wire Flammability (GWFI) | IEC 60695-2-12 | °C | - | - |
| Glow-Wire Ignition (GWIT) | IEC 60695-2-13 | °C | - | - |
| IEC Comparative Tracking Index | IEC 60112 | Volts (Max) | - | - |
| IEC Ball Pressure | IEC 60695-10-2 | °C | - | - |
| ISO Heat Deflection (1.80 MPa) | ISO 75-2 | °C | - | - |
| ISO Tensile Strength | ISO 527-2 | MPa | - | - |
| ISO Flexural Strength | ISO 178 | MPa | - | - |
| ISO Tensile Impact | ISO 8256 | kJ/m ² | - | - |
| ISO Izod Impact | ISO 180 | kJ/m ² | - | - |
| ISO Charpy Impact | ISO 179-1 | kJ/m ² | - | - |