

# Iupiace® AH8P

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

## Message:

Iupiace® AH8P is a Polyphenylene Ether + PS (PPE+PS) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Iupiace® AH8P are:

Flame Rated

High Flow

| General Information                        |                   |               |             |
|--------------------------------------------|-------------------|---------------|-------------|
| UL YellowCard                              | E167806-225183    | E41179-231999 |             |
| Features                                   | High Flow         |               |             |
| Processing Method                          | Injection Molding |               |             |
| Physical                                   | Nominal Value     | Unit          | Test Method |
| Density                                    | 1.10              | g/cm³         | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (280°C/5.0 kg) | 20.0              | cm³/10min     | ISO 1133    |
| Molding Shrinkage                          |                   |               |             |
| Across Flow : 3.20 mm                      | 0.50 to 0.70      | %             |             |
| Flow : 3.20 mm                             | 0.50 to 0.70      | %             |             |
| Water Absorption (Saturation, 23°C)        | 0.060             | %             | ISO 62      |
| Mechanical                                 | Nominal Value     | Unit          | Test Method |
| Tensile Modulus (23°C)                     | 2600              | MPa           | ISO 527-2   |
| Tensile Stress (Yield, 23°C)               | 56.0              | MPa           | ISO 527-2   |
| Tensile Strain (Yield, 23°C)               | 3.2               | %             | ISO 527-2   |
| Nominal Tensile Strain at Break (23°C)     | 28                | %             | ISO 527-2   |
| Flexural Modulus (23°C)                    | 2600              | MPa           | ISO 178     |
| Flexural Stress (23°C)                     | 93.0              | MPa           | ISO 178     |
| Impact                                     | Nominal Value     | Unit          | Test Method |
| Charpy Notched Impact Strength (23°C)      | 7.0               | kJ/m²         | ISO 179     |
| Thermal                                    | Nominal Value     | Unit          | Test Method |
| Heat Deflection Temperature                |                   |               |             |
| 0.45 MPa, Unannealed                       | 95.0              | °C            | ISO 75-2/B  |
| 1.8 MPa, Unannealed                        | 85.0              | °C            | ISO 75-2/A  |
| CLTE                                       |                   |               | ISO 11359-2 |
| Flow                                       | 6.0E-5            | cm/cm/°C      |             |
| Transverse                                 | 6.0E-5            | cm/cm/°C      |             |
| Electrical                                 | Nominal Value     | Unit          | Test Method |
| Surface Resistivity                        | 2.0E+15           | ohms          | IEC 60093   |
| Volume Resistivity                         | 3.0E+16           | ohms·cm       | IEC 60093   |
| Flammability                               | Nominal Value     | Unit          | Test Method |

| Flame Rating (1.50 mm) | V-0           | UL 94 |
|------------------------|---------------|-------|
| Injection              | Nominal Value | Unit  |
| Drying Temperature     | 50.0 to 90.0  | °C    |
| Drying Time            | 2.0 to 4.0    | hr    |
| Rear Temperature       | 230 to 260    | °C    |
| Middle Temperature     | 250 to 280    | °C    |
| Front Temperature      | 250 to 280    | °C    |
| Nozzle Temperature     | 240 to 260    | °C    |
| Mold Temperature       | 70.0 to 90.0  | °C    |
| Injection Pressure     | 20.0 to 150   | MPa   |
| Injection Rate         | Moderate      |       |
| Screw Speed            | 60 to 150     | rpm   |

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