

IUPIACE AH40

(PPE+PS)

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	13	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Yield strain	3.2	%	ISO 527
Strain at break	34	%	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	76	MPa	ISO 178
Charpy impact strength, +23°C	150	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	95	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	110	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	67	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	71	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	3E14	Ohm*m	IEC 62631-3-1
Surface resistivity	2E15	Ohm	IEC 62631-3-2
Electric strength	38	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Water absorption	0.07	%	Sim. to ISO 62
Density	1060	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 80	°C	-
Pre-drying - Time	2 - 4	h	-
Mold temperature	50 - 90	°C	-
Zone 1	230 - 260	°C	-
Zone 2	250 - 280	°C	-
Zone 3	250 - 280	°C	-
Nozzle temperature	240 - 260	°C	-
Screw speed	60 - 150	rpm	-
Injection pressure	20 - 150	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Iupiac AH40

(PPE+PS)

Mitsubishi Engineering-Plastics Corporation

Applications

Automotive, Electrical and Electronical, General Purpose