

MENU

Iupiace -m-PPE-

Properties	Test Method	Terms	Units	Flame Retardant V-1
				LV40
				-
				-
Physical properties				
Density	ISO 1183	-	g/cm ³	1.10
Water absorption	-	23degC, Underwater	%	0.07
Rheological properties				
Melt Volume-flow Rate	ISO 1133		cm ³ /10min	16
		Temperature	degC	300
		Load	kg	2.16
Moulding shrinkage (3.2mmt)	-	MD	%	0.5 - 0.7
		TD		0.5 - 0.7
Mechanical properties				
Tensile modulus	ISO 527-1 , 527-2	23 degC	MPa	-
Yield stress				60
Yield strain			%	-
Nominal strain at break				20
Stress at 50% strain			MPa	-
Stress at break				-
Strain at break			%	-
Flexural strength	ISO 178	23 degC	MPa	97
Flexural modulus				2550
Charpy impact strength	ISO 179-1, 179-2	23 degC	kJ/m ²	-
Charpy notched impact strength	ISO 179-1, 179-2	23 degC	kJ/m ²	16
Thermal properties				
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	100
		0.45MPa		115
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	6.3E-05
		TD		6.6E-05
Flammability	UL94	0.75mmt	-	V-1
		1.5mmt	-	-
		2.0mmt	-	-
		2.5mmt	-	-
		3.0mmt	-	-
Electrical properties				
Relative permittivity	IEC 60250	100Hz	-	-
		1MHz	-	-
Dissipation factor	IEC 60250	100Hz	-	-
		1MHz	-	-
Volume resistivity	IEC 60093	-	ohm-m	3E+14
Surface resistivity	IEC 60093	-	ohm	2E+15
Electric strength	IEC 60243-1	1mmt	MV/m	-
		2mmt		-
		3mmt		-

Comparative tracking index	IEC 60112	-	-	-
Note				
Molding conditions -Examples of recommended molding conditions are shown below.-				
Drying of feedstock resin				Hot air drying at 70-80°C---about 2-4 hours
Cylinder temp (rear)			°C	230-260
Cylinder temp (center)			°C	250-280
Cylinder temp (front)			°C	250-280
Nozzle temp			°C	240-260
Mold temp			°C	50-90
Injection pressure			MPa	20-150
Screw rotation			rpm	60-150
Injection speed			-	middle

Note

- The values described are typical values only.
- The usage examples indicated here do not guarantee results applicable to relevant uses of the products.
- It is the users' responsibility to investigate industrial property rights and the terms of use related to the uses and applications indicated here.
- For the handling (transport, storage, forming, disposal, etc.) of the products, it is advisable to refer to technical documents and the Safety Data Sheet (SDS) of the proper materials and grades. Please contact us for consultations when the products are used for the purpose of food containers and packaging, medical parts, safety equipment, and toys for children.
- In Japan, the colored products of each grade may contain chemicals subject to reporting requirements under the applicable law provided in Appendix 9 of Article 18-2 of the Enforcement Order, under Article 57-2 of the Industrial Safety and Health Act. For details, please contact us.
- For the export of our products and products incorporated with our products, please comply with the relevant laws and regulations, such as the Foreign Exchange and Foreign Trade Law.
- Please note that because of the chemical substance management systems in each country, the chemicals used in our products are subject to control, and separate applications might be required or are banned from imports and exports. It is advisable to inquire about the status of regulations in the relevant countries if you are exporting or importing our products.