

Iupital-POM-

				Standard -1
Properties	Test Method	Terms	Units	F30-03
				Low
				Viscosity
Physical properties				
Density	ISO 1183	-	g/cm3	1.41
Water absorption	-	23degC, 60%RH	%	0.22
Rheological properties				
Melt Mass-flow Rate	ISO 1133		g/10min	27
Melt Volume-flow Rate		Temperature	cm3/10min degC	23 190
		Load	kg	2.16
Moulding shrinkage (3mmt)	-	MD	%	2.0
		TD		-
Mechanical properties				
Tensile modulus	ISO 527-1	-	MPa	2900
Yield stress	, 527-2			64
Yield strain			%	7.5
Nominal strain at break				25
Stress at break			MPa	-
Strain at break			%	-
Flexural strength	ISO 178	-	MPa	91
Flexural modulus				2700
Charpy impact strength	ISO 179-1, 179-2	23 degC	kJ/m2	150
Charpy notched impact strength	ISO 179-1, 179-2	23 degC	kJ/m2	6.0
Thermal properties				
Melting temperature	ISO 11357-3		degC	166
Temperature of deflection under	ISO 75-1	1.80MPa	degC	100

load	, 75-2	0.45MPa		156
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	1.1E-04
		TD		1.1E-04
Flammability	UL94	0.8mmt	-	HB
Electrical properties				
Relative permittivity	IEC 60250	100Hz	-	3.9
		1MHz	-	3.9
Dissipation factor	IEC 60250	100Hz	-	0.002
		1MHz	-	0.007
Volume resistivity	IEC 60093	-	ohm-m	1E+12
Surface resistivity	IEC 60093	-	ohm	1E+16
Electric strength	IEC 60243-1	1mmt	MV/m	32
		3mmt		19
Comparative tracking index	IEC 60112	-	-	600
Note				
Molding conditions -Examples of recommended molding conditions are shown below.-				
Drying of feedstock resin				Hot air drying at 80°C---about 3-4 hours
Cylinder temp (rear)			°C	170
Cylinder temp (center)			°C	180
Cylinder temp (front)			°C	190
Nozzle temp			°C	180-210
Mold temp			°C	60-80
Injection pressure			MPa	50-100
Screw rotation			rpm	80-120
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.