MENU

Iupilon -PC-

Properties	Test Method	Terms	Units	Basic S-2000 Medium Viscosity
				–
				–
				–
Physical properties				
Density	ISO 1183	–	g/cm3	1.20
Water absorption		23degC, 50%RH	%	–
		23degC, Underwater		0.24
Rheological properties				
Melt Mass-flow Rate	ISO 1133		g/10min	10
Melt Volume-flow Rate			cm3/10min	9
		Temperature	degC	300
		Load	kgf	1.20
Moulding shrinkage (3.2mmt)	–	MD	%	0.5 - 0.7
		TD		0.5 - 0.7
Mechanical properties				
Tensile modulus	ISO 527-1, 527-2		MPa	2400
Yield stress				61
Yield strain			%	5.6
Nominal strain at break		–		113
Stress at 50% strain			MPa	–
Stress at break				–
Strain at break			%	–
Flexural strength	ISO 178	–	MPa	93
Flexural modulus				2300
Charpy impact strength	ISO 179-1, 179-2	23 degC	kJ/m2	NB
Charpy notched impact strength	ISO 179-1, 179-2	23 degC	kJ/m2	76
Thermal properties				
Temperature of deflection under load	ISO 75-1, 75-2	1.80MPa	degC	129
		0.45MPa		143
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	6.5E-05
		TD		6.6E-05
Flammability	UL94	–	–	–
Electrical properties				
Relative permittivity	IEC 60250	100Hz	–	3.1
		1MHz	–	3.1
Dissipation factor	IEC 60250	100Hz	–	0.0006
		1MHz	–	0.0090
Volume resistivity	IEC 60093	–	ohm-m	3E+14
Surface resistivity	IEC 60093	–	ohm	6E+15
Electric strength	IEC 60243-1	1mmt		31
		2mmt	MV/m	–
		3mmt		18
Comparative tracking index (CTI)	UL746A	–	–	2

Note				S-2000V(R) (V-2) S-2000R (Mold Release) S-2000U(R) (UV Stabilized) S-2001(R) (FDA compliant)
Molding conditions -Examples of recommended molding conditions are shown below.-				
Drying of feedstock resin				Hot air drying at 120℃---about 4-8 hours
Cylinder temp (rear)			℃	260-280
Cylinder temp (center)			℃	270-290
Cylinder temp (front)			℃	270-300
Nozzle temp			℃	270-300
Mold temp			℃	70-100
Injection pressure			MPa	50-150
Screw rotation			rpm	50-100

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.