

Paryls® PSU F3050

Polysulfone

Youju New Materials Co., Ltd.

Message:

PARYLS® PSU F3050 pellets are supplied in cartons lining aluminum foil bag, which can be stored indefinitely, provided the packaging remains undamaged.

PARYLS® PSU F3050 pellets absorb moisture very rapidly. Therefore, the pellets need to be dried at least 6h at 160 °C in a vacuum or dry air drier prior to processing.

General Information			
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (343°C/2.16 kg)	3.0 - 6.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4, ISO 2577
Transverse flow	0.72	%	ISO 294-4, ISO 2577
Flow	0.68	%	ISO 294-4, ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2
Tensile Stress	68.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.7	%	ISO 527-2
Flexural Modulus	2480	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	5.5	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	170	°C	ISO 75-2/A
Glass Transition Temperature ¹	185	°C	ISO 11357-2, DSC
CLTE - Flow (23°C)	5.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	> 1.0E+15	ohms	IEC 60093
Volume Resistivity ³	> 1.0E+15	ohms · cm	IEC 60093
Dielectric Strength ⁴	40	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.10		IEC 60250

1 MHz	3.10		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	8.0E-4		IEC 60250
1 MHz	6.4E-3		IEC 60250
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.0 mm	HB		UL 94
4.5 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	320 - 370	°C	
Mold Temperature	120 - 160	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	6.0	hr	
Melt Temperature	320 - 370	°C	
Die Temperature	120 - 160	°C	
NOTE			
1.	10°C/min		
2.	100V		
3.	100V		
4.	K20/K20, (60*60*1 mm ³)		

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