

Paryls® PSU F3150GL20

Polysulfone

Youju New Materials Co., Ltd.

Message:

PARYLS® PSU F3250GL20 pellets are supplied in cartons lining aluminum foil bag, which can be stored indefinitely, provided the packaging remains undamaged.

PARYLS® PSU F3250GL20 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.

Features

PARYLS® PSU F3250GL20, resin is a 20% glass fiber reinforced polysulfone(PSU). Glass fiber substantially increase the rigidity, tensile strength, creep resistance, dimensional stability and chemical resistance of the polysulfone resin. The high performance properties make these resins particularly effective alternatives to metals in many engineering applications.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight
Features	Good dimensional stability
	Rigidity, high
	High strength
	Good creep resistance
	Good chemical resistance
Appearance	Black
	Grey
	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (343°C/2.16 kg)	5.0 - 10	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4, ISO 2577
Transverse flow	0.50	%	ISO 294-4, ISO 2577
Flow	0.30	%	ISO 294-4, ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6800	MPa	ISO 527-2
Tensile Stress	108	MPa	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2
Flexural Modulus	6400	MPa	ISO 178

Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	184	°C	ISO 75-2/A
Glass Transition Temperature ¹	185	°C	ISO 11357-2, DSC
CLTE - Flow (23°C)	2.6E-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	46	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.50		IEC 60250
1 MHz	3.50		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		IEC 60250
1 MHz	6.0E-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	350 - 390	°C	
Mold Temperature	130 - 180	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	6.0	hr	
Melt Temperature	350 - 390	°C	
Die Temperature	130 - 180	°C	
NOTE			
1.	10°C/min		
2.	100V		
3.	100V		
4.	K20/K20, (60*60*1 mm ³)		

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