

Paryls® PES F2250 GL30

Polyethersulfone

Youju New Materials Co., Ltd.

Message:

PARYLS® PES F2250GL30 pellets are supplied in cartons lining aluminum foil bag, which can be stored indefinitely, provided the packaging remains undamaged.

PARYLS® PES F2250GL30 pellets absorb moisture very rapidly. Therefore, the pellets need to be dried at least 6h at 180 °C in a vacuum or dry air drier prior to processing.

Features

PARYLS® PES F2250GL30, resin is a 30% 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, 30% 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	1.60	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	10 - 15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4, ISO 2577
Transverse flow	0.58	%	ISO 294-4, ISO 2577
Flow	0.25	%	ISO 294-4, ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress	140	MPa	ISO 527-2
Tensile Strain (Yield)	1.9	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178

Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	8.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	°C	ISO 75-2/A
Glass Transition Temperature ¹	225	°C	ISO 11357-2, DSC
CLTE - Flow (23°C)	1.5E-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	37	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	4.30		IEC 60250
1 MHz	4.30		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		IEC 60250
1 MHz	0.010		IEC 60250
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	180	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	350 - 390	°C	
Mold Temperature	140 - 180	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	180	°C	
Drying Time	6.0	hr	
Melt Temperature	350 - 390	°C	
Die Temperature	140 - 180	°C	
NOTE			
1.	10°C/min		
2.	100V		
3.	100V		
4.	K20/K20, (60*60*1 mm ³)		

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