

SUMIKAEXCEL® PES 4101GL20

Polyethersulfone
Sumitomo Chemical Co., Ltd.

Message:

SUMIKAEXCEL® PES 4101GL20 is a Polyethersulfone (PESU) material filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of SUMIKAEXCEL® PES 4101GL20 are:

- Flame Rated
- Chemical Resistant
- Creep Resistant
- Flame Retardant
- Good Dimensional Stability

General Information			
UL YellowCard	E54705-100988578	E249884-100961991	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Gasoline Resistance		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
	High Heat Resistance		
	Oil Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	
Across Flow	0.40	%	
Water Absorption (24 hr)	0.36	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	134		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5900	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (6.40 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (6.40 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
CLTE			ASTM D696
Flow : -50 to 150°C	2.6E-5	cm/cm/°C	
Transverse : 50 to 150°C	4.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Arc Resistance	150	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.430 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	310 to 340	°C	
Middle Temperature	340 to 380	°C	
Front Temperature	340 to 380	°C	
Nozzle Temperature	340 to 380	°C	
Processing (Melt) Temp	350 to 360	°C	
Mold Temperature	120 to 160	°C	
Injection Pressure	118 to 157	MPa	
Injection Rate	Moderate-Fast		
Holding Pressure	58.4 to 78.4	MPa	
Back Pressure	4.90 to 9.80	MPa	
Screw Speed	30 to 50	rpm	

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Recommended distributors for this material

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