

SUMIKAEXCEL® PES 4100G

Polyethersulfone
Sumitomo Chemical Co., Ltd.

Message:

SUMIKAEXCEL® PES 4100G is a Polyethersulfone (PESU) material. It is available in Asia Pacific, Europe, or North America for extrusion or injection molding.

Important attributes of SUMIKAEXCEL® PES 4100G are:

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

General Information		
UL YellowCard	E54705-100988577	E249884-100961990
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	Extrusion	
	Injection Molding	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.60	%	
Across Flow	0.60	%	
Water Absorption (24 hr)	0.43	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	84.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	129	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.40 mm)	85	J/m	ASTM D256
Unnotched Izod Impact (6.40 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	203	°C	ASTM D648
CLTE			ASTM D696
Flow : -50 to 150°C	5.5E-5	cm/cm/°C	
Transverse : 50 to 150°C	5.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Arc Resistance	70.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.460 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	300 to 330	°C	
Middle Temperature	330 to 360	°C	
Front Temperature	330 to 360	°C	
Nozzle Temperature	330 to 360	°C	
Processing (Melt) Temp	350 to 360	°C	
Mold Temperature	120 to 150	°C	
Injection Pressure	98.0 to 137	MPa	
Injection Rate	Moderate-Fast		
Holding Pressure	49.0 to 68.6	MPa	
Back Pressure	4.90 to 9.80	MPa	
Screw Speed	50 to 60	rpm	

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Recommended distributors for this material

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