

SUMIKAEXCEL® PES 3600G

Polyethersulfone
Sumitomo Chemical Co., Ltd.

Message:

SUMIKAEXCEL® PES 3600G is a Polyethersulfone (PESU) material. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of SUMIKAEXCEL® PES 3600G are:

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

General Information			
UL YellowCard	E54705-100988574	E249884-100961987	
Features	Flame Retardant		
	Gasoline Resistance		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
	High Flow		
	High Heat Resistance		
	Oil Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm³	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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