

SUMIPLOY® PS5660

Polyethersulfone

Sumitomo Chemical Co., Ltd.

Message:

SUMIPLOY® PS5660 is a Polyethersulfone (PESU) material filled with 30% glass fiber. It is available in Asia Pacific or North America for injection molding.

Important attributes of SUMIPLOY® PS5660 are:

Chemical Resistant

Creep Resistant

Flame Retardant

Good Dimensional Stability

Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% 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 Flow		
	High Heat Resistance		
	Oil Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.35	%	
Across Flow	0.48	%	
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	163	MPa	ASTM D638
Tensile Elongation (Break)	4.9	%	ASTM D638
Flexural Modulus	10500	MPa	ASTM D790
Flexural Strength	222	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.40 mm)	90	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)	234	°C	ASTM D648
CLTE			ASTM D696
Flow : -50 to 150°C	1.4E-5	cm/cm/°C	
Transverse : 50 to 150°C	7.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Arc Resistance	120	sec	ASTM D495
Injection	Nominal Value	Unit	
Processing (Melt) Temp	320	°C	

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Recommended distributors for this material

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