

SUMIPLOY® AS1411

Polyethersulfone
Sumitomo Chemical Co., Ltd.

Message:

SUMIPLOY® AS1411 is a Polyethersulfone (PESU) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of SUMIPLOY® AS1411 are:

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

General Information			
UL YellowCard	E54705-100988581	E249884-100961994	
Features	Antistatic		
	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	1.52	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.26	%	
Across Flow	0.36	%	
Water Absorption (24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	74.0	MPa	ASTM D638
Tensile Elongation (Break)	3.7	%	ASTM D638
Flexural Modulus	5400	MPa	ASTM D790
Flexural Strength	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.40 mm)	30	J/m	ASTM D256

Unnotched Izod Impact (6.40 mm)	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	209	°C	ASTM D648
CLTE			ASTM D696
Flow : -50 to 150°C	2.9E-5	cm/cm/°C	
Transverse : 50 to 150°C	4.6E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (0.530 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	360	°C	

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Recommended distributors for this material

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