SUMIPLOY® GS5420

Polyethersulfone

Sumitomo Chemical Co., Ltd.

Message:

SUMIPLOY® GS5420 is a Polyethersulfone (PESU) material filled with 30% glass\ptfe. It is available in Asia Pacific or North America for injection molding.
Important attributes of SUMIPLOY® GS5420 are:
Flame Rated
Chemical Resistant
Creep Resistant
Flame Retardant
Good Dimensional Stability

General Information			
UL YellowCard	E54705-100988659	E249884-100962059	
Filler / Reinforcement	Glass\PTFE,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 Heat Resistance High Rigidity Oil Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.58	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	
Across Flow	0.36	%	
Water Absorption (24 hr)	0.35	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	103	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	6600	MPa	ASTM D790
Flexural Strength	139	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (6.40 mm)	49	J/m	ASTM D256
Unnotched Izod Impact (6.40 mm)	350	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	208	°C	ASTM D648
CLTE			ASTM D696
Flow : -50 to 150°C	2.1E-5	cm/cm/°C	
Transverse : 50 to 150°C	5.5E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Arc Resistance	95.0	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.530 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	360	°C	

Recommended distributors for this material

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WECHAT