

Ultrason® S 2010 G6

Polysulfone

BASF Corporation

Product Description

Ultrason S 2010 G6 is a 30% glass reinforced, medium viscosity injection molding PSU grade with high rigidity and strength.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Additive	• Ignition Resistant		
Features	• Flame Retardant	• Good Impact Resistance	• High Strength
	• Good Flow	• High Rigidity	• Medium Viscosity
Uses	• Printed Circuit Boards	• Printer Parts	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1)	• Isothermal Stress vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2)
	• Isochronous Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	• Viscosity vs. Shear Rate (ISO 11403-2)

Physical

	Nominal Value	Unit	Test Method
Specific Gravity	--	1.49 g/cm ³	ASTM D792 ISO 1183
	--	1490 kg/m ³	ISO 1183 ²
Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)		37.0 cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow: 3.18 mm		0.30 %	ASTM D955
Across Flow		0.29 %	ISO 294-4
Flow		0.46 %	ISO 294-4
Water Absorption			
Saturation		0.50 %	ASTM D570 ISO 62 ²
Saturation, 23°C		0.50 %	ISO 62
Equilibrium, 50% RH		0.10 %	ASTM D570
Equilibrium, 23°C, 50% RH		0.10 %	ISO 62
Equilibrium		0.10 %	ISO 62 ²
Viscosity Number		63.0 cm ³ /g	ISO 307

Mechanical

	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C		9600 MPa	ISO 527-2
--		9600 MPa	ISO 527-2 ²
Tensile Strength			
Break, 23°C		126 MPa	ASTM D638
Break, 23°C		173 MPa	ISO 527-2
Break		173 MPa	ISO 527-2 ²
Tensile Strain (Break)		2.0 %	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr		8600 MPa	
1000 hr		8300 MPa	
Flexural Modulus			
23°C		10200 MPa	ASTM D790
23°C		9290 MPa	ISO 178
Flexural Strength (23°C)		173 MPa	ISO 178

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
23°C	7.0	kJ/m ²	ISO 179
23°C	7.00	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength (23°C)	33	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	69.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	186	°C	ASTM D648
0.45 MPa, Unannealed	187	°C	ISO 75-2/B
0.45 MPa	187	°C	ISO 75-2 ²
1.8 MPa, Unannealed	183	°C	ASTM D648
1.8 MPa	183	°C	ISO 75-2/A
1.8 MPa	183	°C	ISO 75-2 ²
CLTE - Flow	0.000021	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	1.0E+14	ohms	ASTM D257 IEC 60093
Volume Resistivity			
1.50 mm	> 1.0E+13	ohm·cm	ASTM D257
--	> 1.0E+13	ohm·cm	IEC 60093
--	> 1.0E+11	ohm·m	IEC 60093 ²
Dielectric Constant			IEC 60250
100 Hz	3.70		
1 MHz	3.70		
Dissipation Factor			IEC 60250
100 Hz	10		
1 MHz	60		
Comparative Tracking Index			
--	125	V	IEC 60112
--	125		IEC 60112 ²
Electric Strength	49	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	V-1		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	160	°C	UL 746
RTI Imp (1.50 mm)	140	°C	UL 746
RTI Elec (1.50 mm)	160	°C	UL 746
Injection	Nominal Value	Unit	
Drying Temperature	130 to 150	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	330 to 390	°C	
Mold Temperature	120 to 160	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

³ 1.5 mm

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