

# Ultrason® S 2010 G4

## Polysulfone (PSU)



### Product Description

Ultrason S 2010 G4 is a 20% glass reinforced, medium viscosity injection molding PSU grade with high rigidity and strength.

### Applications

Typical applications include circuit breaker parts, lamp holders, heat shields, impellers, and printer cartridges.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm <sup>3</sup>	1183	1.38
Mold Shrinkage, parallel, %	294-4	0.31
Mold Shrinkage, normal, %	294-4	0.52
Moisture, %	62	
(50% RH)		0.2
(Saturation)		0.7
RHEOLOGICAL	ISO Test Method	Property Value
Melt Volume Rate (360 C/10 Kg), cc/10min.	1133	40
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23C		6,800
Tensile stress at break, MPa	527	
23C		110
Tensile strain at break, %	527	
23C		2.2
Tensile Creep Modulus (1000h), MPa	899	6,000
IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m <sup>2</sup>	180	
23C		7
Charpy Notched, kJ/m <sup>2</sup>	179	
23C		7
-30C		7
Charpy Unnotched, kJ/m <sup>2</sup>	179	
23C		45
-30C		45
THERMAL	ISO Test Method	Property Value
HDT A, °C	75	183
Coef. of Linear Thermal Expansion, Parallel, mm/mm °C		0.26 X10-4
ELECTRICAL	ISO Test Method	Property Value
Comparative Tracking Index	IEC 60112	125
Volume Resistivity	IEC 60093	>1E13
Surface Resistivity	IEC 60093	>1E14
Dielectric Constant (100 Hz)	IEC 60250	3.5



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The Chemical Company

Dielectric Constant (1 MHz)	IEC 60250	3.5
Dissipation Factor (100 Hz)	IEC 60250	10
Dissipation Factor (1 MHz)	IEC 60250	60
Dielectric Strength, KV/mm	IEC 60243-1	46
UL RATINGS	UL Test Method	Property Value
Flammability Rating, 1.5mm	UL94	V-1
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, C		160
Mechanical w/ Impact, C		140
Electrical, C		160

## Note

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