

### 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	
23°C		6,600
Tensile stress at break, MPa	527	
23°C		115
Tensile strain at break, %	527	
23°C		2.9
Ball Indentation, MPa	2039-1	170
IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m <sup>2</sup>	180	
-30°C		8
23°C		8
Charpy Notched, kJ/m <sup>2</sup>	179	
-30°C		8
23°C		8
Charpy Unnotched, kJ/m <sup>2</sup>	179	
-30°C		55
23°C		50
THERMAL	ISO Test Method	Property Value
HDT A, °C	75	184
Coef. of Linear Thermal Expansion, Parallel, mm/mm °C		0.26 X10 <sup>-4</sup>
ELECTRICAL	ISO Test Method	Property Value
Comparative Tracking Index	IEC 60112	125
Volume Resistivity (Ohm)	IEC 60093	>1E13
Surface Resistivity (Ohm-m)	IEC 60093	>1E15
Dielectric Constant (100 Hz)	IEC 60250	3.5
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, 1.6mm	UL94	V-1
Relative Temperature Index, 1.6mm	UL746B	
Mechanical w/o Impact, °C		160
Mechanical w/ Impact, °C		140
Electrical, °C		160
Flammability Rating, 3.0mm	UL94	V-0
Relative Temperature Index, 3.0mm	UL746B	
Mechanical w/o Impact, °C		160
Mechanical w/ Impact, °C		140
Electrical, °C		160

### Note

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required.

BASF Corporation  
Engineering Plastics  
1609 Biddle Avenue  
Wyandotte, MI 48192

General Information: 800-BC-RESIN  
Technical Assistance: 800-527-TECH (734-324-5150)  
Web address: <http://www.plasticsportal.com/usa>

