Product Information

Ultrason® S 2010 G4
Polysulfone (PSU)

BASF
The Chemical Company

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 braker parts, lamp holders, heat shields, impellers, and printer cartridges.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm	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^2	180	
23C		7
Charpy Notched, kJ/m^2	179	
23C		7
-30C		7
Charpy Unnotched, kJ/m^2	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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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