

Ultrason[®] S 2010 G4 PSU (Polysulfone)

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 ³	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		6,600
Tensile stress at break, MPa	527	
23C		115
Tensile strain at break, %	527	
23C		2.9
Ball Indentation, MPa	2039-1	170
IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m ²	180	
-30C		8
23C		8
Charpy Notched, kJ/m ²	179	
-30C		8
23C		8
Charpy Unnotched, kJ/m ²	179	
-30C		55
23C		50
THERMAL	ISO Test Method	Property Value
HDT A, C	75	184
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 (Ohm-m)	IEC 60093	>1E13
Surface Resistivity (Ohm)	IEC 60093	>1E15

Dielectric Constant (100 Hz)	IEC 60250	3.5
Dielectric Constant (1 MHz)	IEC 60250	3.5
Dissipation Factor (100 Hz), E-4	IEC 60250	10
Dissipation Factor (1 MHz), E-4	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

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