



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: GlasthermGradeS

Description: GlasthermGradeSisageneralpurposeinsulationsheetwithaneconomicalcombinationof thermalandphysicalproperties.GradeSisrecommendedforprocesseswherethecontinuous operatingtemperaturedoesnotexceed425°F.

Itiscompletelyasbestos-freeandruggedtowithstandroughhandlingduringinstallation.Itiseasilycutandmachinedwithstandardmetalworking equipment.Diamondcuttingtoolsare recommendedforlonglife.

Standards:

Availability: LaminateSheets: Thickness: English units 0.250”to1.00” SI Units 6.35mmto25.4mm
 SheetSizes: 36”x72” 91.44cmx182.88cm
 48”x96” 121.92cmx243.84cm

Key Characteristics:	Test Method	Units - English (SI)	Typical Values
StandardColor			Tan
WaterAbsorption(1/8”thick)	D570	%	0.4
CompressiveStrength:			
@75°F/24°C	D695	psi(MPa)	45,000(310)
@302°F/150°C	D695	psi(MPa)	16,000(110)
@392°F/200°C	D695	psi(MPa)	11,500(79)
@550°F/288°C	D695	psi(MPa)	10,000(69)
ImpactStrengthIZOD(Edgewise)	D256	Ft-lbs/in(J/cm)	8(4.3)
SpecificGravity	D792	Lbs/in ³ (g/cc)	115(1.84)
DielectricStrength(Perp.1/16”,air)	D149	V/mil(kV/mm)	50(2)
Hardness	D785	RockwellM	94
CoefficientofThermalExpansion:			
AcrossThickness	D696	In/In/°Cx10 ⁻⁵ (10 ⁻⁶ /K)	7.02(70)
AcrossSurface	D696	In/In/°Cx10 ⁻⁵ (10 ⁻⁶ /K)	1.10(11)
ThermalConductivity	C177	BTU*In/Hr*Ft ² *°F(W/m*K)	1.8(0.26)

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