

PPSU Film

Formula: PPSu
Thickness: 5.5mm
Length 1: 10mm
Length 2: 10mm
Production Method: Injection Moulded
Colour: Blue
UOM Code: 101-871-36
SKU: 1000015376-group
Product Code: SU33-SH-000120

Material Properties for Polymers

Electrical Properties

Element	Value
Dielectric constant @ 1kHz	3.45
Dissipation factor @ 1kHz	0.0009
Dissipation factor @ 1MHz	0.005
Dielectric strength(kV mm ²¹)	14.1
Surface resistivity(Ohm/sq)	>10 ¹³
Volume resistivity(Ohmcm)	>10 ¹⁷

Physical Properties

Element	Value
Flammability	V-0
Limiting oxygen index(%)	44
Water absorption(%)	1.2
Water absorption - equilibrium(%)	0.6
Water absorption - over 24 hours(%)	0.35
Density(gcm ³)	1.29

Mechanical Properties

Element	Value
Hardness - Rockwell	M80/R122

Element	Value
Elongation at break(%)	30
Compressive modulus(GPa)	1.7
Tensile modulus(GPa)	2.5
Izod impact strength(J m ⁻¹)	700
Tensile strength(MPa)	76

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	210
Heat-deflection temperature - 1.8MPa(C)	200
Upper working temperature(C)	180-210
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.35
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	55

Pultrusions

Element	Value
Compressive strength(MPa)	99