

PSU Film

Formula: PSu

Thickness: 0.1mm

Length 1: 10mm

Length 2: 10mm

CAS Number: 25135-51-7

UOM Code: 105-282-48

SKU: 1000018415-group

Product Code: SU34-FM-000100

Material Properties for Polymers

Chemical Resistance

| Element | Value |
|-----------------------|--------------|
| Acids - concentrated | Fair |
| Acids - dilute | Good |
| Alcohols | Good |
| Alkalis | Good |
| Aromatic hydrocarbons | Fair |
| Greases and Oils | Good |
| Halogens | Good |
| Ketones | Poor |

Electrical Properties

| Element | Value |
|--|--------------------|
| Dielectric constant @ 1kHz | 3.14 |
| Dielectric constant @ 1MHz | 3.1 |
| Dissipation factor @ 1kHz | 0.0013 |
| Dissipation factor @ 1MHz | 0.005 |
| Dielectric strength(kV mm ²¹) | 17 |
| Volume resistivity(Ohmcm) | 5x10 ¹⁷ |

Physical Properties

| Element | Value |
|----------------|--------------|
|----------------|--------------|

| | |
|-------------------------------------|------|
| Flammability | HB |
| Radiation resistance | Good |
| Resistance to Ultra-violet | Poor |
| Limiting oxygen index(%) | 30 |
| Water absorption(%) | 0.4 |
| Water absorption - equilibrium(%) | 0.85 |
| Density(gcm ³) | 1.24 |

Mechanical Properties

| Element | Value |
|---|--------------|
| Hardness - Rockwell | M91 |
| Elongation at break(%) | 50-100 |
| Tensile modulus(GPa) | 2.48 |
| Izod impact strength(J m ²¹) | 69 |
| Tensile strength(MPa) | 70 |

Thermal Properties

| Element | Value |
|---|--------------|
| Heat-deflection temperature - 1.8MPa(C) | 174 |
| Upper working temperature(C) | 150-180 |
| Thermal conductivity(W m ²¹ K ²¹) | 0.26 |
| Coefficient of thermal expansion(x10 ²² K ²¹) | 56 |