

PS (Cross-linked) Film

Formula: PS - X - Linked

Thickness: 6.4mm

Length 1: 150mm

Length 2: 150mm

CAS Number: 9003-53-6

UOM Code: 018-416-00

SKU: 1000002225-group

Product Code: ST30-SH-000164

Material Properties for Polymers

Chemical Resistance

Element	Value
Acids - concentrated	Fair-Poor
Acids - dilute	Good(-Fair?)
Alcohols	Good(-Fair?)
Alkalis	Good-Fair
Aromatic hydrocarbons	Poor
Greases and Oils	Fair-Poor
Halogenated Hydrocarbons	Poor
Halogens	Poor
Ketones	Poor

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	2.5
Dissipation factor @ 1MHz	0.0002
Dielectric strength(kV mm ¹)	27-47
Surface resistivity(Ohm/sq)	>10 ¹²
Volume resistivity(Ohmcm)	>10 ¹²

Physical Properties

Element	Value
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Flammability	HB
Radiation resistance	Good
Refractive index	1.59
Water absorption - over 24 hours(%)	0.02-0.03
Density(gcm ³)	1.05

Mechanical Properties

Element	Value
Hardness - Rockwell	R110-120
Elongation at break(%)	03-May
Tensile modulus(GPa)	1.65
Abrasive resistance - ASTM D1044(mg/1000 cycles)	60-100
Tensile strength(MPa)	55-70

Thermal Properties

Element	Value
Upper working temperature(C)	93
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.17@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	70-90