

PS (Cross-linked) Rod

Formula: PS - X - Linked

Diameter: 70mm

Length: 200mm

CAS Number: 9003-53-6

UOM Code: 001-474-06

SKU: 1000000173-group

Product Code: ST30-RD-000195

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 ²¹)	27-47
Surface resistivity(Ohm/sq)	>10 ^{1?}
Volume resistivity(Ohmcm)	>10 ^{1?}

Physical Properties

Element	Value
Flammability	HB

Element	Value
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