

VICTREX® APTIV® 1000 PEEK Film

Grade: VICTREX® APTIV® 1000

Formula: PEEK

Thickness: 0.075mm

Length 1: 150mm

Length 2: 150mm

Structure: Semi Crystalline

Surface Finish: Gloss/Gloss

Colour: Translucent Grey

CAS Number: 29658-26-2

UOM Code: 125-460-64

SKU: 1000034702-group

Product Code: EK30-FM-000176

Material Properties for Polymers

Chemical Resistance

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

Mechanical Properties

Element	Value
Coefficient of friction	0.18
Hardness - Rockwell	M99
Poisson's ratio	0.4
Elongation at break(%)	50
Tensile modulus(GPa)	3.7-4

Element	Value
Izod impact strength(J m ⁻¹)	85
Tensile strength(MPa)	70-100

Electrical Properties

Element	Value
Dielectric constant @ 1kHz	3.2-3.3@50Hz-10Khz
Dissipation factor @ 1MHz	0.003
Dielectric strength(kV mm ⁻¹)	190@50μm
Volume resistivity(Ohmcm)	10 ¹² -10 ¹⁴

Physical Properties

Element	Value
Flammability	V-0 @ 1.5mm
Radiation resistance	Good
Resistance to Ultra-violet	Fair
Limiting oxygen index(%)	35
Water absorption - equilibrium(%)	0.5
Water absorption - over 24 hours(%)	0.1-0.3
Density(gcm ⁻³)	1.26-1.32

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	260
Heat-deflection temperature - 1.8MPa(C)	160
Upper working temperature(C)	250
Specific heat(J K ⁻¹ kg ⁻¹)	1340
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.25@23°C
Coefficient of thermal expansion(x10 ⁻⁴ K ⁻¹)	47-108