

PVDF Granules

PVDF granules provide chemical resistance, UV stability, mechanical strength, and processability for injection moulded chemical fittings, pump housings, precision seals, and research on crystallisation behaviour, composite formulations, and piezoelectric grade film production. **SKU:** 1000008638-group

Product Code: FV30-GL-000100

Material Properties for Polymers

Chemical Resistance

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

Mechanical Properties

Element	Value
Coefficient of friction	0.2-0.4
Hardness - Rockwell	R77-83
Poisson's ratio	0.34
Elongation at break(%)	50
Tensile modulus(GPa)	01-Mar
Izod impact strength(J m ⁻¹)	120-320
Abrasive resistance - ASTM D1044(mg/1000 cycles)	24
Tensile strength(MPa)	25-60

Electrical Properties

Element	Value
Dielectric constant @ 1MHz	8.4

Element	Value
Dissipation factor @ 1kHz	0.06
Dielectric strength(kV mm ⁻¹)	13
Surface resistivity(Ohm/sq)	10 ¹³
Volume resistivity(Ohmcm)	10 ¹⁷

Physical Properties

Element	Value
Flammability	V0
Radiation resistance	Fair
Refractive index	1.42
Resistance to Ultra-violet	Excellent
Limiting oxygen index(%)	44
Water absorption - over 24 hours(%)	0.04
Density(gcm ⁻³)	1.76

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	120-150
Heat-deflection temperature - 1.8MPa(C)	80-115
Lower working temperature(C)	-40
Upper working temperature(C)	135-150
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.1-0.25@23°C
Coefficient of thermal expansion(x10 ⁻⁵ K ⁻¹)	80-140