



Kynar® 740 PVDF – Material Data Sheet

Physical Properties

	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	
Water Absorption	0.03 %	0.03 %	
Moisture Absorption at Equilibrium	0.015 %	0.015 %	Humidity Absorption
Melt Flow	1.1 g/10 min	1.1 g/10 min	230°C/5 kg load

Mechanical Properties

Tensile Strength, Yield	50 MPa	7250 psi	50 mm/min
Elongation at Break	Min 50 %	Min 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	7 %	7 %	50 mm/min
Tensile Modulus	1.7 GPa	247 ksi	1 mm/min
Charpy Impact, Unnotched	24.4 J/cm ²	116 ft-lb/in ²	
Charpy Impact, Notched Low Temp	0.5 J/cm ²	2.38 ft-lb/in ²	at -30°C
Charpy Impact, Unnotched Low Temp	18.6 J/cm ²	88.5 ft-lb/in ²	at -30°C
Charpy Impact, Notched	1.4 J/cm ²	6.66 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	1050 MPa	152000 psi	
Tensile Creep Modulus, 1000 hours	570 MPa	82700 psi	

Electrical Properties

Electrical Resistivity	2e+014 ohm-cm	2e+014 ohm-cm	
Surface Resistance	Min 1e+015 ohm	Min 1e+015 ohm	
Dielectric Constant	7.7	7.7	1 MHz
Dielectric Constant, Low Frequency	10.8	10.8	100 Hz
Dielectric Strength	21 kV/mm	533 kV/in	
Dissipation Factor	0.231	0.231	1 MHz
Dissipation Factor, Low Frequency	0.026	0.026	100 Hz
Comparative Tracking Index	600 V	600 V	

Thermal Properties

CTE, linear 20°C	150 µm/m-°C	83.3 µin/in-°F	Parallel to flow
Melting Point	168 °C	334 °F	10°C/min
Maximum Service Temperature, Air	135 °C	275 °F	Deflection Temp at 0.46 MPa Load
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	
Vicat Softening Point	135 °C	275 °F	50°C/hr; 50N
Glass Temperature	-40 °C	-40 °F	10°C/min
Flammability, UL94	V-0	V-0	1.6 mm
Flammability, UL94	V-0	V-0	0.8 mm
Oxygen Index	43 %	43 %	



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