



Typical Properties of

Kel-F® PCTFE

Polychlorotrifluoroethylene

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	2.16
Tensile Strength	D638	psi	5,760
Tensile Modulus	D638	psi	200,000
Elongation	D638	%	125
Flexural Strength	D790	psi	10,700
Flexural Modulus	D790	psi	254,000
Compressive Strength	D695	psi	N / A
Compressive Modulus	D695	psi	N / A
Hardness, Rockwell	D785	--	R85
Hardness Durometer	--	--	D90
Izod Impact (notched)	D256	ft. lb of notch	3.1
Coeff. of Friction (Dynamic)	--	dry v.s steel	N / A
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	4.8×10^{-5}
Continuous Use Temperature	--	°F	300
Heat Deflection Temperature	D648	°F	167
Glass Transition Temperature	D3418	°F	135
Melting Point	D3418	°F	410
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	1.83
Dielectric Strength	D149	Volts/mil	490
Surface Resistivity	EOS/ESD 511.11	ohm/square	$>10^{16}$
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.01
Water Absorption, Saturation	D570	% by weight	0.01
Limiting PV (4:1 Safety Factor)	--	--	N / A
K-Factor	--	--	N / A
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.