



**Table B-4. Polyvinylidene Fluoride Physical Properties**

Characteristic	Standard	Units	Value
Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	1.78
Tensile Strength	ASTM D 638	psi	7975
Ultimate Tensile Strength	ASTM D 638	psi	6960
Elongation at Break	ASTM D 638	%	50
Flexural Strength	ASTM D 790	psi	12,180
E-Modulus	ASTM D 790	psi	435,000
Impact Strength	ASTM D 256	ft-lb/in	2.80
Hardness—Shore D	ASTM D 2240	—	80
Abrasion Resistance	DIN 53 754	mg/100 cycle	0.5–1
Friction Coefficient	DIN 375	—	0.4–5
Dynamic Friction Coefficient	—	—	0.34
Crystalline Melting Point	DIN 53 736	° C	350
		° F	177
Vicat Point	ASTM D 3418	° C	293
		° F	144
Brittleness Temperature	ASTM D 746	° C	-40
		° F	-40
Thermal Conductance	ASTM D 177	Btu-in/hr ft <sup>2</sup> •°F	1.32
Coefficient of Thermal Expansion	DIN 53 453	° F <sup>-1</sup>	6.7 x 10 <sup>-5</sup>
Specific Volume Resistivity	ASTM D 257	Ohm•cm	5 x 10 <sup>14</sup>
Surface Resistivity	DIN 53 482	Ohm	>10 <sup>13</sup>
Dielectric Strength	ASTM D 149	kv/mm	40
Burning Rate	UL94	—	V-O
Limiting Oxygen Index	ASTM D 2863	%	44