

**Saint-Gobain Performance Plastics**  
**Sani-Pro-K Kynar®**, Design Properties for Kynar Resins  
**Table II**

	Method	Units	Grade				
			460	710	720	740	760
Thermal Conductivity	ASTMD433	BTU-in/hr. ft. <sup>2</sup> °F W/K.m	1.18-1.32 .17-.19				
Specific Heat	DSC	BTU/l.°F kJ/kg.K	0.30 to 0.34 1.26 to 1.42				
L = Length of Pipe ΔT = Working Temp-Ambient. λ = Coefficient of Linear Expansion Near R.T.	TMA	°F <sup>-1</sup> °C <sup>-1</sup>	6.3x10 <sup>-5</sup> 11.4x10 <sup>-5</sup>	4x10 <sup>-5</sup> 7.2x10 <sup>-5</sup>	6.6x10 <sup>-5</sup> -8x10 <sup>-5</sup> 11.8x10 <sup>-5</sup> -14.4x10 <sup>-5</sup>		
Heat Deflection Temperature	TMA	°F (264 psi) °C (1.8 MPa)	183 84	226 108	226 108	244 118	237 114
Brittleness Temperature	ASTM D746	°F °C	-80 -62				
Thermal Decomposition Temperature In Air In Nitrogen	TGA@5°K/min.	°F °C °F °C	707 375 770 410				
Melting Point Range	ASTM D3418	°F °C	311-320 155-160	329-338 165-170			

Table II: Typical values or ranges for thermal properties of various grades of Kynar® and Kynar Flex Fluoropolymers