

# Design Properties of HIP2 Polymer

1. Available Thicknesses(mm)	0.05	0.13	0.25	0.5	1.0
2. Thickness Tolerance(+/-%)	20	10	5	10	10
3. Density(kg/cu.M)			980		
4. Temperature Tolerance (short term Celcius)			260		
5. Temperature Tolerance (long term Celcius)			150		
6. Thermal Conductivity (ASTM C177 W/cm°C)			0.0016		
7. Insulation Reststance (ASTM D1000 megaohms/in <sup>2</sup> )			> 1x10 <sup>6</sup>		
8. Outgassing (% Total Mass Loss)			1.25		
9. Outgassing (% Volatile Condensable Material)			0.02		
10. Thermal Coeff.of Expansion (mm/mm/°C)			1.8x 10 <sup>-4</sup>		
11. Young's Modulus (25°C,1Hz, kPa)			5x10 <sup>3</sup>		
12. Poisson's Ratio			0.49		