

# TYPICAL PROPERTIES DATA SHEET

Hony Engineering Plastics Limited

## TYPICAL PROPERTIES of TURCITE® A and X

ASTM or UL test	Property	Turcite® A	Turcite® X
<b>PHYSICAL PROPERTIES</b>			
D792	Density(lb/in <sup>3</sup> ) (g/cm <sup>3</sup> )	0.054 1.49	0.053 1.46
D570	Water Absorption,24 hrs(%)	0.2	0.2
<b>MECHANICAL PROPERTIES</b>			
D638	Tensile Strength @ break (psi)	7,600	5,900
D638	Tensile Elongation at break (%)	15	19
D790	Flexural Strength(psi)	11,000	8,000
D790	Flexural Modulus(psi)	350,000	335,000
D695	Compressive Strength(PSI)	13,000	12,000
D785	Hardness, Rockwell	M81	M63
D256	IZOD Impact Notched(ft-lb/in)	0.57	0.54
<b>THERMAL PROPERTIES</b>			
D696	Coefficient of Linear Thermal Expansion (X10 <sup>-5</sup> in./in./°F)	5.2	5.2
D684	Heat Deflection Temp(°F/°C) at 264 psi	205/96	203/95
-	Max Operating Temp(°F/°C)	180/82	180/82
<b>TRIBOLOGICAL PROPERTIES</b>			
*	Wear Factor @ 73 °F(in/psi-fpm-hr)	43*10 <sup>-10</sup>	30*10 <sup>-10</sup>
*	Coefficient of Friction, Dynamic ( non-lubricated)	0.30	0.22
*	Limiting PV @ fpm (psi-fpm)	7,500	16,000

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F(23 °C) unless otherwise noted.