

TYPICAL PROPERTIES OF HYDEX® 4101 PBT-P

ASTM or UL test	Property	Hydex® 4101	Hydex® 4101L
PHYSICAL			
D792	Density (lb/in ³) (g/cm ³)	0.047 1.31	0.049 1.36
D570	Water Absorption, 24 hrs (%)	0.07	0.07
MECHANICAL			
D638	Tensile Strength (psi)	9,400	7,200
D638	Tensile Modulus (psi)	425,000	380,000
D638	Tensile Elongation at Break (%)	50	40
D790	Flexural Strength (psi)	11,600	10,600
D790	Flexural Modulus (psi)	420,000	390,000
D695	Compressive Strength (psi)	11,000	11,000
D695	Compressive Modulus (psi)	-	-
D785	Hardness, Rockwell	R120	R120
D256	IZOD Notched Impact (ft-lb/in)	0.7	0.7
THERMAL			
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	4.5	5.0
D648	Heat Deflection Temp (°F / °C) at 264 psi	200 / 93	195 / 89
D3418	Melting Temperature (°F / °C)	420 / 215	420 / 215
-	Max Operating Temp (°F / °C)	221 / 105	221 / 105
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	-	-
UL94	Flammability Rating	HB	HB
ELECTRICAL			
D149	Dielectric Strength (V/mil) short time, 1/8" thick	410	-
D150	Dielectric Constant at 60 Hz	3.3	-
D150	Dissipation Factor at 60 Hz	0.002	-
D257	Volume Resistivity (ohm-cm)at 50% RH	4.5 x 10 ¹⁶	-

These products are available from

