

# FORMEX® CHI PRODUCT DATA

## FLAME RETARDANT POLYCARBONATE SHEET

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TEST METHOD	FORMEX™ CHI-8	FORMEX™ CHI-10
Color	Natural & Black	Natural & Black
<b>MANUFACTURING SPECIFICATION</b>		
Thickness		
inch	0.008 (+0.001/-0.001)	0.010 (+0.0015/-0.0015)
millimeter	0.20 (+0.03/-0.03)	0.25 (+0.04/-0.04)
<b>UL FLAMMABILITY RATING / PERFORMANCE LEVELS</b>		
Flammability	UL 94	VTM-0
Relative Temperature Index	UL 746B	VTM-0
Electrical		80°C/ 176°F
Mechanical Without Impact		80°C/ 176°F
High Current Arc Ignition - PLC	UL 746A	1
High Voltage Arc Tracking - PLC	UL 746A	1
Hot Wire Ignition - PLC	UL 746A	4
Comparative Tracking Index - PLC	ASTM D-3638	3
Furnished As	Three layers of sheets	Three layers of sheets
Voltage Meets Mandrel Test, VAC	IEC 60950-1 / IEC61558-1	7000
<b>TYPICAL MECHANICAL PROPERTIES VALUES</b>		
Tensile Yield - psi	ASTM D-882 / ISO 527-1,-2	
Machine Direction	7200	7200
Transverse Direction	6900	6900
<b>TYPICAL PHYSICAL PROPERTIES VALUES</b>		
Density - gm/cc	ASTM D-792 / ISO 1183-1, Method A	1.21
Oxygen Index - %	ASTM D-2863 / ISO 4589--1,-2	29
Water Absorption - % Change in weight	ASTM D-570 / ISO 62, Method 4	0.2%
Heat Deflection Temperature under load	ASTM D-648 0.45MPa / ISO 75-1,-2,Method B	140°C/ 284°F
<b>TYPICAL ELECTRICAL PROPERTIES VALUES</b>		
Comparative Tracking Index - volts	IEC 60112	175
Dielectric Breakdown - volts	ASTM D-149 / IEC 60243-1	16,029
Dielectric Strength - volts/mil	ASTM D-149 / IEC 60243-1	2,004
Volume Resistivity - ohm-cm	ASTM D-257 / IEC 62631-3-1	1.2 x 10 <sup>16</sup>
Dielectric Constant	ASTM D-150 / IEC 60250, 1MHz	2.22
Dissipation Factor	ASTM D-150 / IEC 60250, 1MHz	0.0072
<b>PACKAGING INFORMATION</b>		
Standard Configuration	Ro11	Ro11
Core ID - inches (millimeters)	6 ( 152 )	6 ( 152 )
Roll OD - inches (millimeters) (approximate)	17 ( 432 )	17 ( 432 )
Roll Width - inches (millimeters)	24 ( 610 )	24 ( 610 )
Roll Weight - lbs (kgs) (approximate)	202 (92)	220 (100)
Length/Roll - feet (meters)	2000 (609.6)	1750 (533.4)
Area/Roll - square feet (square meters)	4000 (371.6)	3500 (325.2)

Notice: The above data is believed to be accurate and reliable. ITW assumes no responsibility for end-use application, and no performance warranty is expressed or implied.