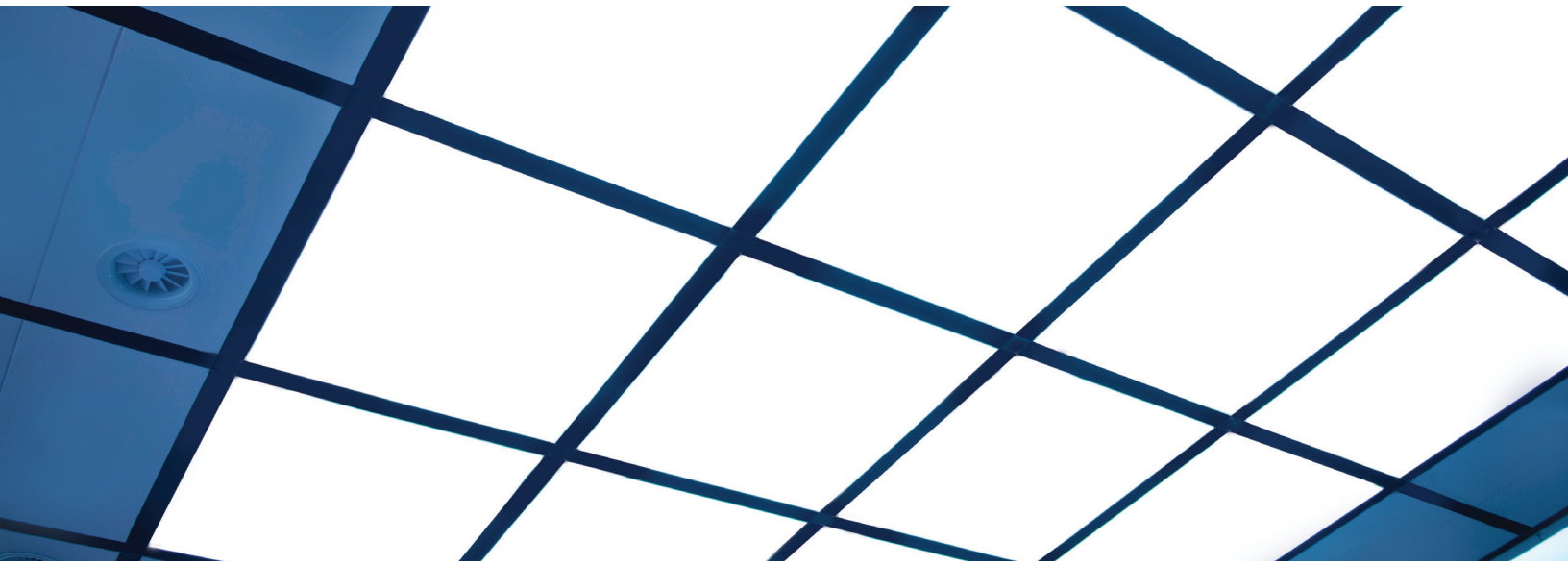
OPTIX® LED PXT SERIES

LOCAL TECH SOLUCIONES



NEW FOR LIGHTING – OUR NEXT GENERATION OF LED DIFFUSION

HARMONIZATION OF PLASKOLITE SHEET, POLYMERS AND PROFILES

- Matte textured surface on 2 sides
- Light transmission consistent throughout thickness range
- Wide range of standard grades to meet various design specifications
- Optimized for high light transmission while maintaining excellent diffusion
- Superior hiding power to eliminate any LED “hot-spots”
- All grades listed are available in polymer format for extrusion purposes
- Standard sheet size 48″ x 96″
- Custom gauges and sizes available

Product	Color	Light Transmission*	Diffusion	Half Angle*	Available Thickness
OPTIX LED PXT-Clear	Clear	92%	Minimal	3	0.060″, 0.080″, 0.118″
OPTIX LED PXT-L	Colorless	92%	Moderate	20	0.060″, 0.080″, 0.118″
OPTIX LED PXT-M	Colorless	85%	Mod-High	30	0.060″, 0.080″, 0.118″
OPTIX LED PXT-H	Colorless	78%	High	35	0.060″, 0.080″, 0.118″
OPTIX LED PXT-U	Colorless	72%	Very High	45	0.060″, 0.080″, 0.118″
OPTIX LED PXT-HC	White	80%	High	25	0.060″, 0.080″, 0.118″
OPTIX LED PXT-UC	White	70%	Very High	40	0.060″, 0.080″, 0.118″
OPTIX LED PXT-UC+	White	60%	Very High	50	0.060″, 0.080″, 0.118″

*Light transmission and half angle readings based on 0.080″ (2mm) thick samples.
Actual light transmission and half angle may vary, depending on profile thickness, geometry and optical patterns.

All PXT grades are available through LTI Photopia for optical simulation.

photopia | materials

Typical Properties			
Properties	**Test Method**	**Units**	**Values**
PHYSICAL			
Specific Gravity	ASTM D792	–	1.19
Water Absorption	ASTM D570	% By wt	0.4
MECHANICAL			
Tensile Strength	–	psi	11,030
Tensile Modulus of Elasticity	–	psi	490,000
Flexural Strength	–	psi	17,000
Flexural Modulus of Elasticity	–	psi	490,000
Izod Impact Strength - Molded Notch	ASTM D256	ft-lb/in Notch	0.4
Rockwell Hardness	ASTM D785	–	M-95
THERMAL			
Maximum Recommended Continuous Service Temperature	–	°F	170-190
Softening Temperature	–	°F	210-220
Melting Temperature	–	°F	300-315
Deflection Temperature, 264 psi	ASTM D648	°F	203
Deflection Temperature, 66 psi	ASTM D648	°F	207
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.0×10^{-5}
Flammability (Burning Rate)	ASTM D635	In/minute	1.0
Smoke Density Rating	ASTM D2843	%	3.4
Self-Ignition Temperature	ASTM D1929	°F	833