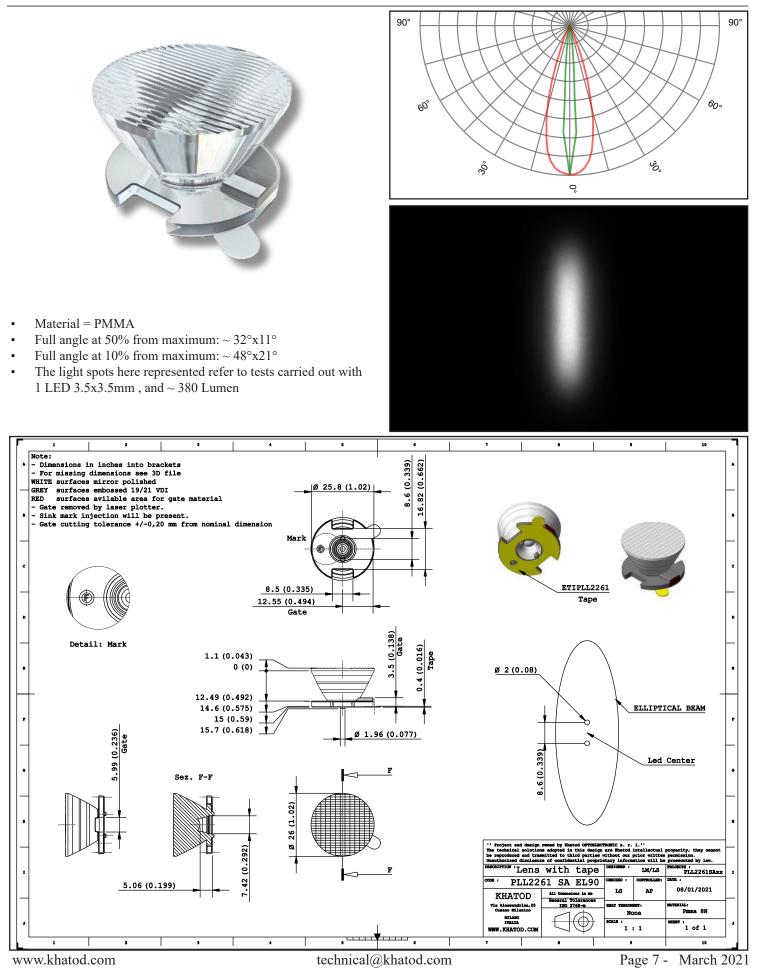
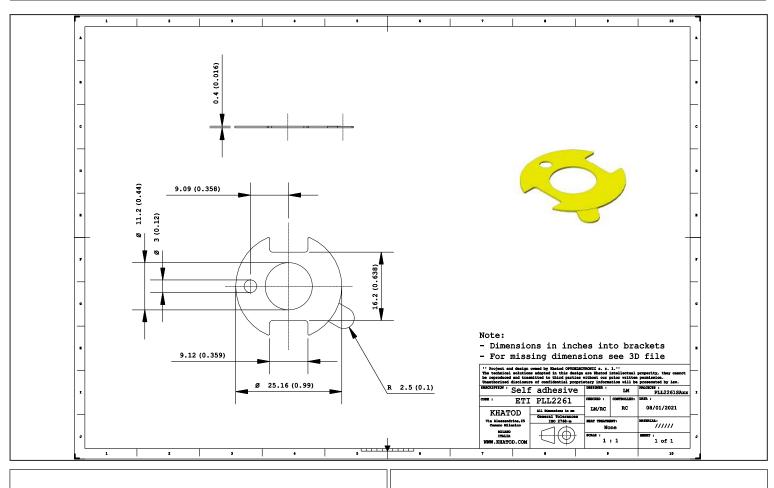


# PLL2261SAEL90 - Elliptical Beam





# **Fixing Adhesive Tape Technical Drawing**



#### **3M High Strength Double Coated Tape with Adhesive 300LSE** 9474LE • 9495LE

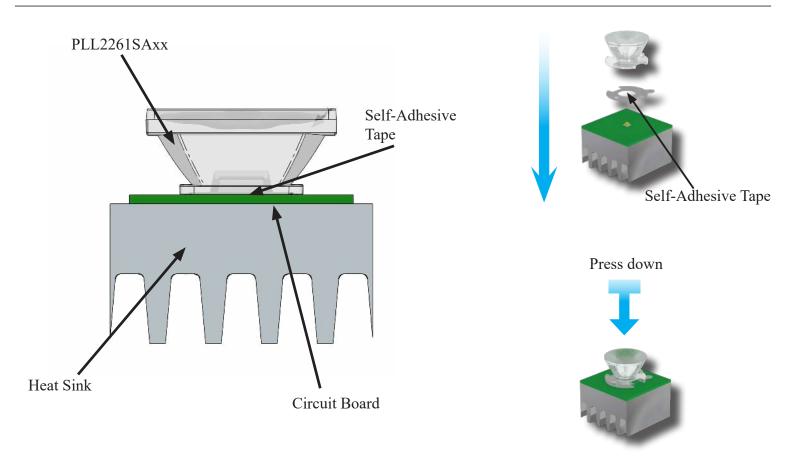
Number (w/o liner) Thickness Thickness Thickness Print Calip   3M™ Double 0.0067" 0.0028" Clear Polyester 0.0044" Faceside Liner 0.00   Gated Tape (0.17mm) (0.07mm) 0.0005" (0.086mm) Print 6.0054" Faceside Liner 0.00   9474LE 0.0005" (0.013mm) 0.0005" (0.086mm) Polycoated Kraft, 0.01 Tan, 58#, Polycoated Kraft, 0.01 Tan, 58#, Polycoated Kraft, 0.00 3M 300.LSE"   3M™ Double 0.0067" 0.0026" Clear Polyester 0.0034" Tan, 58#, 0.00 Tan, 58#, 0.00   Cadled Tape (0.17mm) (0.071mm) 0.0005" (0.086mm) Polycoated Kraft, 0.11 Tan, 58#, 0.00 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" Tan, 58#, 0.00 3M 300.LSE" 3M 300.LSE"	Product Description	3M <sup>™</sup> Double Coated Tapes with 3M <sup>™</sup> Adhesive 300LSE provides high bond strength to most surfaces, including many low surface energy plastics such as polypropylene and powder coated paints. The acrylic adhesive also provides excellen adhesion to surfaces contaminated lightly with oil typically used with machine parts.						
Coated Tape (0.17mm) 0.0005" (0.088mm) Tan, 58# (0.11 (0.13mm)   9474LE 0.0067" (0.013mm) 0.0005" (0.013mm) Backside liner/ Tan, 58#, Polycoated Kraft, 0.00   3M™ Double 0.0067" 0.0028" Clear Polyester 0.0034" Tan, 58#, Polycoated Kraft, 0.10   3MSSLE 0.0067" 0.0028" Clear Polyester 0.0034" Tan, 58#, 0.00   3MSSLE 0.0067" 0.0026" (0.086mm) Polycoated Kraft, 0.11 3M 300.SE*   3MSSLE 0.0057 0.0026" clear Polyester 0.0034" Tan, 58#, 0.00   Note 1: Faceside (FS) adhesive is on the interior of the roll, exposed when unwound. Note 2: Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed.   Note 2: Backside (SS) adhesive is on the exterior of the roll, exposed when liner is removed. Note 3: The caligner listed is based on a calculation from manufacturing controlled adhesive cost	Construction		Thickness	Adhesive Type/	Type/	Adhesive Type/	Color, Type,	Liner Caliper <sup>3</sup>
Coated Tape (0.17mm) (0.071mm) 0.0005" (0.086mm) Polycoated Kraft (0.11 9495LE (0.117mm) 0.0005" (0.013mm) 743 3030.5E" Note 1: Faceside (FS) adhesive is on the interior of the roll, exposed when liner is removed. Note 2: Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed. Note 3: The caligner listed is based on a calculation from manufacturing controlled adhesive cost		Coated Tape			0.0005"		Tan, 58# Polycoated Kraft, no print Backside liner/ Tan, 58#, Polycoated Kraft,	0.0042" (0.11mm) 0.0042" (0.11mm
Note 2: Backside (BS) adhesive is on the exterior of the roll, exposed when liner is removed. Note 3: The caliper listed is based on a calculation from manufacturing controlled adhesive coat		Coated Tape			0.0005"		Polycoated Kraft,	0.0042" (0.11mm
weights using a density of 1.012 g/cc.		Note 1: Faces Note 2: Backs Note 3: The c	side (BS) adh aliper listed is	esive is on th s based on a	e interior of the re e exterior of the r calculation from r	roll, exposed	when unwound. when liner is remove	

#### **3M<sup>™</sup> High Strength Double Coated Tape with Adhesive 300LSE** 9474LE • 9495LE

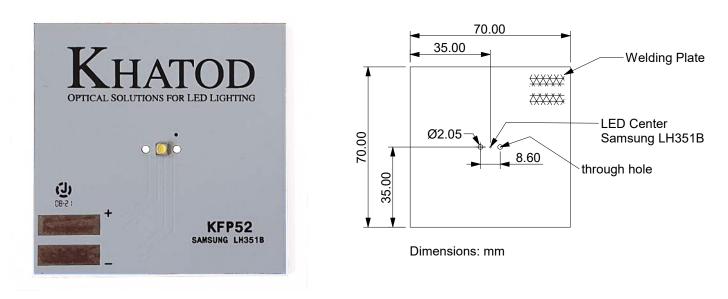
Typical Physical Properties and Performance	Note: The following technical information and data should be considered representative o typical only and should not be used for specification purposes.				
Characteristics	Product Number	3M™ Double Coated Tapes 9474LE, 9495LE			
	Adhesion to stainless steel ASTM D3330 - 180 degree 2 mil polyester as backing	Oz/in (N/100 mm) Faceside / Backside			
	- 72 hour RT	100 (113) / 105 (119)			
	Adhesion to stainless steel ASTM D3330 - 90 degree 2 mil al foil	Oz/in (N/100 mm) Faceside / Backside			
	- 15 minute RT	70 (79) / 80 (90)			
	- 72 hour RT	85 (96) / 100 (113)			
	- 72 hour 158°F (70°C)	106 (119) / 130 (147)			
	Adhesion to other surfaces ASTM D3330 - 90 degree, 2 mil al foil, 72 hour RT	Oz/in (N/100 mm) Faceside / Backside			
	ABS	100 (124) / 90 (102)			
	Polypropylene	90 (102) / 80 (90)			
	Polycarbonate	150 (169) / 140 (158)			
	Glass	90 (102) / 100 (113)			
	Shear Strength - ASTM D3654 Modified – (.5 inch <sup>2</sup> sample size)				
	1000 grams at 72°F (22°C)	>10,000 minutes			
	500 grams at 158°F (70°C)	>10,000 minutes			
	Relative High Temperature Operating Ranges:				
	Long Term (days, weeks)	200°F (93°C)			
	Short Term (minutes, hours)	300°F (149°C)			
	Relative Solvent Resistance:	Very Good			



# **Assembly Specifications**



PCB made by Khatod



KFP52 LED : Samsung LH351B



# Thermal shock resistance level



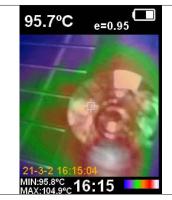
### **Initial Visual Inspection**

Before starting the tests, a visual inspection was performed in order to check the integrity of the part. The part resulted physically intact. The reference temperature of the component under test is 90° C.

Photo: the Lens in the climatic chamber.



Temperature set in the climatic chamber



Temperature detected on the part by IR thermal camera



### **Final Visual Inspection**

After testing, a final visual inspection was performed. The result was positive. (view photo)

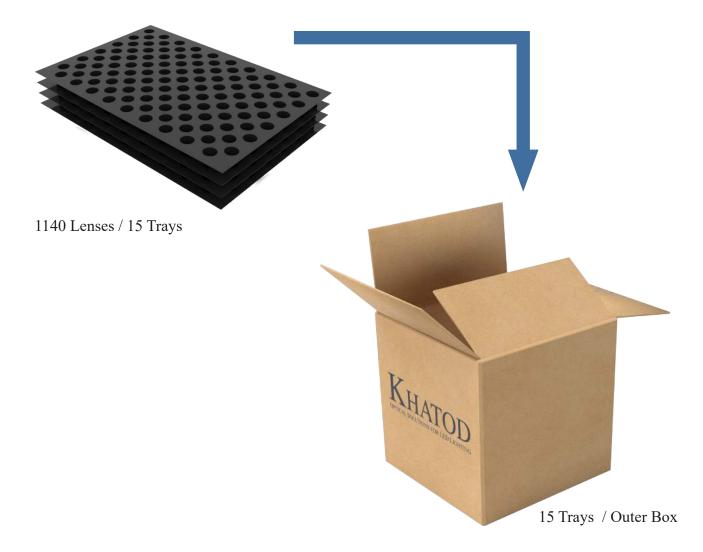
Photo: the part in the climatic chamber after testing.

Based on the testing result, PLL2261xx test specimens proved to overcome the thermal stress test up to 90°C, without any physical deterioration of the material.



# Packaging

Item	Quantity	Total Lens	Size (L*W*H)	G.W.
Trays	76 pcs per Tray	76 pcs	50*32 cm	0.8 Kg
Outer Box	15 Trays per Outer Box	1140 pcs	50*32*38 cm	13.8 Kg





#### Materials

Material	Тор
РММА	-40°90°C
PLL2261xx Temperature resistance: long-term exposure	-40°85°C
PLL2261xx Temperature resistance: short-term exposure	up to + 90 °C

#### Notes:

The optical values shown are the result of optical simulations carried out with LIGHTOOLS, ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples.

#### **Use and Maintenance**

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

#### Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.

Should you require further information, please contact Khatod for advice. All lens testing must be subject to identical conditions as Khatod test condition. Khatod Optoelectronic, Milan, Italy, manufactures lenses for LEDs. Any other use of the lens shall void our liability and warranty. The lenses are an inert component to be used in the manufacture of various products. Our warranty and liability are limited only to the manufacture of the lens. You may not modify, copy, distribute reproduce, license or alter the lens and related materials of Khatod. Khatod does not warrant against damages or defects arising out of the use or misuse of the products; against defects or damage arising from improper installation, or against defects in the product or in its components. No warranty of any kind, expressed or implied, is made regarding the safety of the products. The entire risk as to the quality or performance of the product is with the buyer. In no event shall Khatod be liable for any direct, indirect, punitive, incidental, special, consequential damages, or any damages whatsoever arising out of or connected with the use or misuse of the product. Khatod shall not have any obligation with respect to the product or any part thereof, whether based on contract, tort, strict liability or otherwise. Buyer assumes all risks and liability from use of the product. The laws of Milan, Italy govern this product warranty and liability and you hereby consent to the exclusive jurisdiction and venue of courts in Milan, Italy in all disputes arising out of or relating to the use of this product. Production, marketing, distribution, sale of these products as well as their possible modifications and variations are only exclusive right of Khatod Optoelectronic. No company can perform any of these actions without written permission released by Khatod Optoelectronic. The information contained in this document is proprietary of Khatod Optoelectronic and may change without notice. **REPRODUCTION PROHIBITED.**