HIGH OPTICAL QUALITY

LEXAN™ OQ SHEET PORTFOLIO
TRANSPORTATION GLAZING SOLUTIONS



POLYVANTIS

LEXAN™ OQ SHEET PORTFOLIO

Virtually unbreakable, high optical quality, LEXAN sheet portfolio of polycarbonate (PC) products, from POLYVANTIS , combine crystal clear transparency with lightweight and features outstanding low ripple and distortion, including an extremely low number of optical defects. These optical quality and coated sheets are supplied with industry leading optical specifications and produced with a class 10,000 clean room technology.

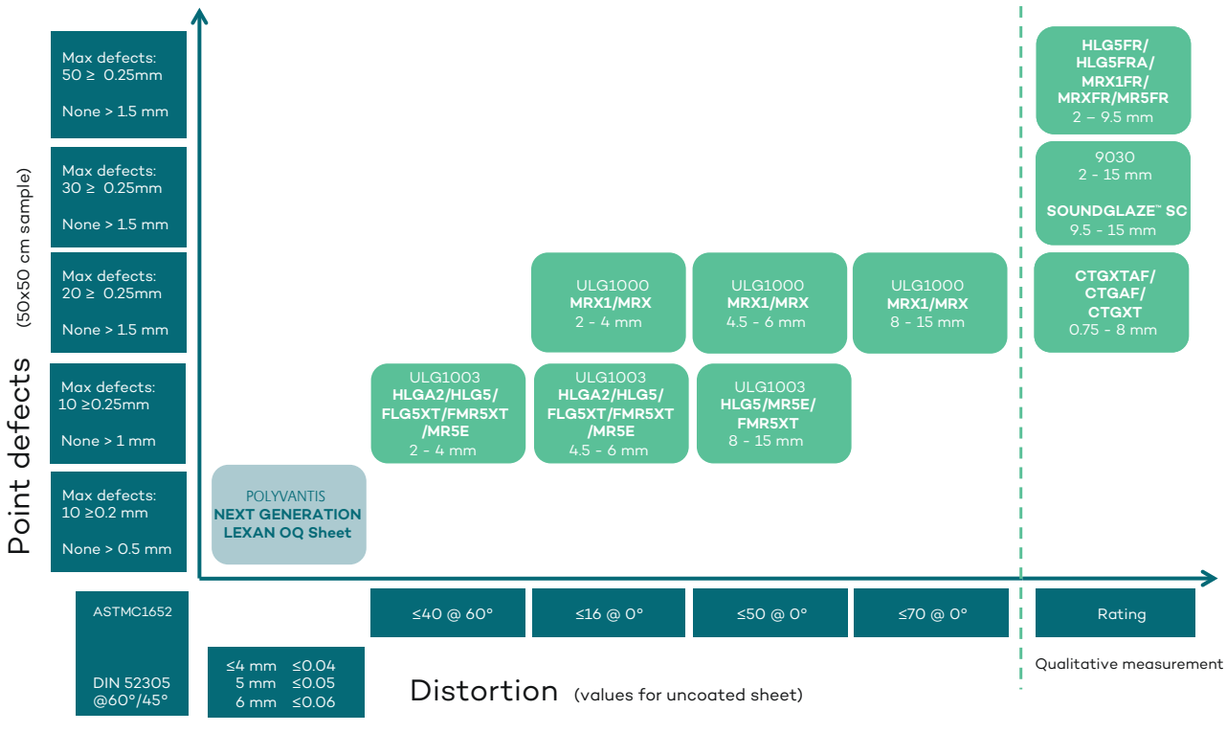
LEXAN OQ sheet portfolio can offer one of the best optical quality materials for the glazing of forestry vehicles, high-speed trains, high security facilities and bullet resistant glass-PC laminates for VIP, military and police vehicles.



DEFINITION OF OPTICAL QUALITY

- Visual defects (core & surface)
  - Gels (un-molten PC), black specs (burned PC)
  - Inclusions (foreign particles), air bubbles, fibers
  - Coating defects
- Optical distortion

OPTICAL SPECIFICATIONS AND OPTICAL QUALITY LEXAN SHEET PORTFOLIO



		OQ[1]	TABER HAZE[2]	WEATHER-ABILITY[3]	FORMABILITY[4]	UL LISTING	GAUGES (MM)
CURVED APPLICATIONS							
UNCOATED LEXAN™ SHEET GRADES							
ULG1003	Very high optical quality, thermoformable sheet with very low distortion level for coating or lamination applications.	Very high	> 15	1	50	N/A	2 - 15
ULG1000	High optical quality, thermoformable sheet for coating or lamination applications. Specially designed for automotive side glazing applications,	High	> 15	1	50	N/A	2 - 15
1-SIDE COATED LEXAN SHEET GRADES							
MAR-RESISTANT							
HLGA2	For interior and non-UV intense glass/pc lamination applications. Improved secondary operations (crack sensitivity) combined with excellent abrasion.	Very high	0.5 - 1	1	0.3	N/A	1 - 8
FLG5XT	Formable (cold/warm) hard coated sheet formed glass/PC lamination applications.	High	4 - 8	5	5	N/A	2 - 8
ANTI-FOG							
CTGAF1	Formable 1 side anti-fog coated sheet with abrasion resistance for visor applications.	High	15 - 20	1	5	N/A	0.75 - 5
2-SIDE COATED LEXAN SHEET GRADES							
MAR-RESISTANT							
FMR5XT	Formable (cold/warm) coated sheet for non-UV intense formed applications.	High	4 - 8	5	5	N/A	2 - 12
CTGXT	Formable coated, thin gauge sheet for formed applications requiring abrasion resistance on both sides	High	4 - 8	5	5	N/A	0.75 - 2
ANTI-FOG							
CTGXTAF	Formable coated sheet with weathering & abrasion resistance on one side and anti-fog & abrasion resistance on the other side	High	4 - 8	5	5	N/A	0.75 - 5
CTGAF2	Formable 2 sides anti-fog coated sheet & abrasion resistance for visor applications	High	15 - 20	1	5	N/A	0.75 - 5
FLAT APPLICATIONS							
1-SIDE COATED LEXAN SHEET GRADES							
MAR-RESISTANT							
HLG5	Good abrasion resistant, highly weatherable sheet for flat, outdoor glass/pc lamination applications.	Very high	1 - 3	7	0	HB/>3	2 - 12
MRX1	1 side hard coated, weatherable sheet for various flat applications.	High	2 - 4	5	0	N/A	2 - 15
2-SIDE COATED LEXAN SHEET GRADES							
MAR-RESISTANT							
MR5E	Abrasion resistant, weatherable sheet with enhanced chemical resistance & anti- graffiti properties (ECE R43 certified) for use in public areas for high abuse applications for flat applications.	Very high	1 - 3	7	0	HB	2 - 15
MRX	Sheet with wider optical specifications, providing good balance of weatherability, abrasion resistance and costs for flat applications.	High	2 - 4	5	0	N/A	2 -15
FLAME RETARDANT APPLICATIONS							
1-SIDE COATED LEXAN SHEET GRADES							
MAR-RESISTANT							
HLG5FR	Flame retardant, 1 side hard coated weatherable sheet for flat glass/pc lamination.	Std	1 - 3	7	0	N/A	3 - 5*
HLG5FRA	Flame retardant (according to FST), 1 side hard coated weather-able sheet for flat glass/pc lamination, especially for aircraft.	Std	1 - 3	7	0	FST	2 - 3
MRX1FR	Flame retardant, high optical quality, 1 side hard coated weatherable for various flat applications	Std	2 - 4	5	0	N/A	3 - 6*
2-SIDE COATED LEXAN SHEET GRADES							
MAR-RESISTANT							
MR5FR	Flame retardant, 1 side hard coated weatherable sheet for flat glass/pc lamination.	Std	1 - 3	7	0	V0/3-6 5VB/>6	3 - 9.5
MRXFR	Flame retardant, high optical quality, 2 sides hard coated weath-erable for various flat applications	Std	2 - 4	5	0	N/A	3 - 6*

* Other gauges on request

1. OQ - Optical Quality: See page 3 for classifications
2. Taber Haze according ASTM D1044, CS-10F 100 cycles 500gr.
3. Weatherability according to ISO 11431A test, 800 hours - 1 year in central Europe (years of warranty)
4. Formability (maximum thinning in %)

POLYVANTIS

www.polyvantis.com

LEXAN™ POLYCARBONATE FILM & SHEET | Tough, Virtually Unbreakable

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