## Acoustic Interlayer Laminated Glass

Solutia Inc.introduces Saflex® Q series advanced acoustic interlayer for architectural glazing applications. This multi-layer product was designed with improved handling and processability in mind. The product allows laminators to produce glass laminates with enhanced acoustical properties compared to laminates made with standard polyvinyl butyral(PVB).

As a co-extruded product.Saflex Q series has all the advanced acoustic benefits of an acoustic PVB.with similar process parameters than standard Saflex R series products.Reduced handling time,combined with improved lamination yield will help glass laminators to stay more competitive in the fast growing acoustic LAG market.Other benefits the product provides include:

·Compatibility with clear and translucent white saflex PVB

·Same shelf life as Saflex R series products

·Security of supply

Acoustic Data in Double and Triple Glazing							
	Rw	С	CTR	Overall Thickness(mm)			
Laminated Glass							
33.1	35	-1	-5	6.64			
33.2	36	-1	-3	6.76			
44.1	37	-1	-4	8.64			
44.2	37	-1	-4	8.76			
55.2	38	-1	-2	10.76			
55.2	39	-1	-3	12.76			
1212.2	43	0	-3	24.76			
Laminated Insulating Glass							
3/12/44.2	38	-1	-5	24.46			
6/12/36.2	42	-2	-6	28.46			
6/12/66.2	43	-2	-6	31.46			
Double Laminated Insulating Glass							
33.2/12/33.2	42	-2	-5	26.22			
Triple Laminated Insulating Glass**							
6/12Kr90/4/12Kr90/44.2	43	-2	-8	44.16			
8/12Ar90/4/12Ar90/44.2	43	-2	-7	46.16			
8/12Kr90/4/12Kr90/44.2	44	-2	-7	46.16			
44.2/12Ar90/6/12Ar90/55.2	47	-2	-7	50.92			
44.2/12Kr90/6/12Kr90/55.2	48	-3	-8	50.92			

## **Product Performance**

	Product Name	EN12600	EN356	Comply
Impact Data	QS41	181	P2A	with 4mm glass
	QS31	181	P1A	with 3mm glass

	Product Name	Rw.lso 717-7	МІМ	Comply
Acoustic Data	QS41	37dB	>0.25	with 4mm glass
	QS31	37dB	>0.25	with 4mm glass
	QS31	35dB	>0.25	with 4mm glass

1B1-Twin Tire pendulum impact test at 1200mm Drop height, glass shard containment is achieved.

2B2-Twin Tire pendulum impact test at 450mm Drop height, glass shard containment is achieved.

P2A-Impact test for security glazing.3000mm Drop Height of 100mm diameter steel sphere weight 4.11kg.Ball is dropped three times on same specimen in a triangular formation.

## **Product Description**

Product Name	Thickness	Roll width(cm)	Roll length (m)	
QS41	0.76mm	100.120.140.160.180.200.225.244	250	
QS31	0.63mm	100.120.140.160.180.200.225.244	300	

## **General Data**

	Property	Test Method	Units	Test Conditions	Saflex® Q Series Acoustic Interlayer
Physical	Thickness	Micrometer	mm	0.63 0.76	
	Moisture	-	%	-	0.38±0.07
	Specific Gravity	ASTM D792		23 °C	1.060

	Specific Heat	ASTM E1269	Joules/kg- °K BTU/lb- °F	50 °C (122 °F)		2050 0.41	
	Tensile Strength	JIS K6771	Mpa KG/cm 2 psl	23 °C/50% RH		21 210 3040	
Mechanical		ISO 527-3	Mpa KG/cm 2	23 °C/50% RH 20mm/min		21.7 221	
	Elognation at Failure	JIS K6771	%	23 °C/50% RH			
		ISO 527-3	%	23 °C/50% RH 20mm/min		264	
	Coefficient of Thermal Expansion	Thermal Mechanic	ppm/ °C	0-50 °C		2.2	
Thermal	Thermal Conductivity,k	ASTM F433	W/m- °K BTU/nr-ft- °F	45 °C 118 °F		0.21 0.11	
Flame Retardant	Auto Ignition Temperature	ASTM D1929	°C °F	ASTM D1929-96	6	360 680	
Solar and Light P	erformance**						
Visible Light	Transmittance	Reflectance	Absorptance	UV	Transmittance	Reflectance	Absorptance
EN 410/ISO 9050	89.5	8.5	1.9	EN 410	0.1	6.2	93.7
				ISO 9050	0.1	6.0	93.9
Solar	Direct Transmittance	Direct Reflectance	Direct Absorptance	Solar Factor	Total Reflectance	Shading Coefficient	
EN 410	74.7	7.5	17.5	79.3	20.5	20.5 0.91	
ISO 9050(air mass 1.5)	75.5	7.3	16.9	79.9	19.8	8 0.92	