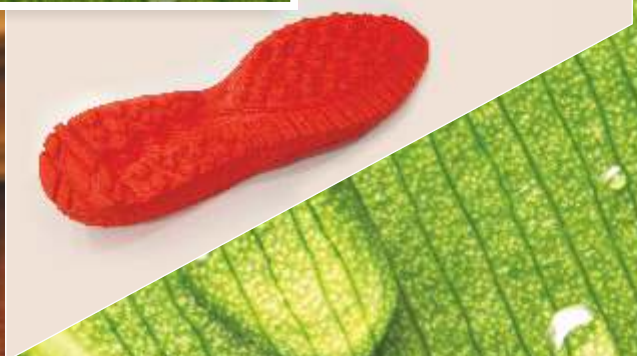




KLJ GROUP
SINCE 1967



**WE
VALUE
YOUR
TRUST**



... sustaining life with material footprints

TOTAL SOLUTIONS IN FOOTWEAR COMPOUND



World Class Plants strategically located in India with installed capacity of Compounding aggregating over 100,000 tpa.

One Stop Total Solutions provider for all the Footwear & other Compound needs.

COMPLETE RANGE OF FOOTWEAR COMPOUND

PVC – Compact, Microlon, Green Cloud (Lite Weight), Cork etc.
 TPR – Normal, Expandable (Lite Weight), Low Abrasion, Cork etc.
 TPE – Compact
 EVA – Lite Weight with Low Abrasion

PVC - Compact

S.NO.	GRADE	SPECIFIC GRAVITY	HARDNESS (SHORE A)	THERMAL STABILITY @200°C	TENSILE STRENGTH	ELONGATION AT BREAK	VOLATILE LOSS AT 130°C/3 HRS	RECOMMENDED PROCESSING TEMP	APPLICATIONS								
										UNITS →	NA	NOS.	MINUTES (MIN)	KG/CM ² (MIN)	% (MIN)	% (MAX)	°C
										TEST METHOD →	ASTM D792	ASTM D2240	IS 5831	ASTM D638	ASTM D638	KPA/QCD/	—
1	BT-55 NAT	1.16 ± 0.02	55 ± 3	30	70	350	1.5	145-175	Sole								
2	BT-60 B	1.18 ± 0.02	60 ± 3	25	100	350	1.0	145-180	Soles/Chappals								
3	ET 3	1.19 ± 0.02	69 ± 3	20	110	280	0.6	145-175	Chappal Straps								
4	ET 5 N	1.17 ± 0.02	55 ± 3	20	75	300	0.6	130-160	Chappals / Straps								
5	AST 2 NRA	1.24 ± 0.02	70 ± 3	20	130	300	1.0	130-160	Transparent sole/ Straps								
6	Q-60 SPL	1.22 ± 0.02	60 ± 3	20	90	350	0.6	145-180	Soles								
7	Q-70 SPL	1.23 ± 0.02	70 ± 3	25	90	300	1.5	145-180	Soles								
8	Q-85 SPL	1.24 ± 0.02	85 ± 3	25	120	250	1.5	145-180	Soles								
9	BT-60C	1.23 ± 0.02	60 ± 3	15	90	350	2.0	145-175	Soles								
10	BATA-II	1.25 ± 0.02	65 ± 3	15	100	375	2.0	145-175	Soles								
11	SH-60 NEW	1.25 ± 0.02	65 ± 3	12	100	375	2.5	145-180	Soles								
12	ET 3 II R	1.26 ± 0.02	70 ± 3	10	120	300	0.6	145-175	Transparent Chappal /Shoe/Straps								
13	AR-55 NB	1.32 ± 0.03	68 ± 3	20	70	300	--	145-160	Gum Boots								
14	S-4 T L	1.28 ± 0.02	65 ± 3	15	60	200	2.0	140-180	Transparent Gum Boot Sole								
15	S-4 T U	1.25 ± 0.02	60 ± 3	15	60	200	2.0	140-180	Transparent Gum Boot Uppers								

* Fluorescent & Glitter compounds are also available. | * As per requirement, all grades are available in different colors, different hardness and UV Stabilized. Properties may vary with hardness.

* All grades are also available as per ROHS guidelines, REACH norms and Phthalate free compositions.* The above properties are indicative and represent the values as tested in our laboratories.

* There is no guarantee / warranty what-so-ever unless mentioned.* Suitability of the product for particular application may be verified before use.

PVC - Microlon

S.NO.	GRADE	SPECIFIC GRAVITY	HARDNESS (SHORE A)	THERMAL STABILITY @200°C	TENSILE STRENGTH	ELONGATION AT BREAK	VOLATILE LOSS AT 130°C/3 HRS	RECOMMENDED PROCESSING TEMP	APPLICATIONS								
										UNITS →	NA	NOS.	MINUTES (MIN)	KG/CM ² (MIN)	% (MIN)	% (MAX)	°C
										TEST METHOD →	ASTM D792	ASTM D2240	IS 5831	ASTM D 638 / IS 10810(Part-7)	KPCL/QCD/WIN-2	—	
1	A1	1.24 ± 0.02	50 ± 3	15	40	200		145-175	Chappal & Soles								
2	A2	1.26 ± 0.02	58 ± 3	10	70	250		145-175	Chappal & Soles								
3	BM-52 III SKS	1.12 ± 0.02	53 ± 3	20	20	100	1.0	140-170	Light weight Rubberised Sole								
4	BM AS 65 NAT/COL	0.60 ± 0.05 (Foam Density)	65 ± 3	20	25	100	1.0	140-170	Antistatic Type Soles								
5	BM AIR I NAT	1.23 MAX	53 ± 3	15	30	100		150-200	Light weight Rubberised Sole								
6	BM-AI B-II /BW	1.25 ± 0.03	45 ± 3	10	40	200	--	140-170	Full Shoes								
7	BM SUPER G-2/3/GF	1.26 ± 0.03	61 ± 3	10	70	200	1.5	140-175	Sports Shoe Sole								
8	BM-99FD	1.27 ± 0.02	60 ± 3	15	50	170	1.2	140-175	Shoes/Soles								
9	BM SUPER WHITE G4	1.21 ± 0.02	60 ± 3	20	50	150	1.5	140-180	Light weight Sports Shoe								
10	BM GS 60 NAT/WH	1.25 ± 0.02	60 ± 3	10	50	150	1.5	145-175	Sports Shoe								
11	5-CH	1.32 ± 0.02	65 ± 3	15	90	280	1.5	145-175	School Shoe / Sole								
12	A-2KH	1.31 ± 0.02	60 ± 3	10	70	200	2.0	140-175	Sports Shoes / Sole								
13	BM -65 WHITE-BT	1.31 ± 0.02	60 ± 3	10	70	200	2.0	140-175	Sole & Shoes								
14	BM ARM 66 WH	1.35 ± 0.02	66 ± 3	10	50	150	2.0	140-175	Perfumery fancy soles								
15	BM-AIR D	1.32 ± 0.02	73 ± 3	20	120	150	1.2	150-180	Sole								
16	BM-68	1.44 ± 0.02	65 ± 3	25	55	200	2.0	140-175	Sole								

* As per requirement all grades are available in different colours, different hardness and as UV Stabilised. Properties may vary with hardness.

* All grades are also available as per ROHS guidelines, REACH norms and Phthalate free compositions.

The above properties are indicative and represent the values as tested in our laboratories. There is no guarantee / warranty what-so-ever. Suitability of the product for particular application may be verified before use.

EVA

S.NO.	GRADE	SURFACE FINISH	SPECIFIC GRAVITY	HARDNESS AFTER EXPANSION	EXPANSION @175 ± 3°C PRESSURE 200±5 KG/CM ²	ABRASION RESISTANCE	APPLICATIONS FOOT WEAR					
								—	—	SHORE A	%	MM ³
								KLJ TM	ASTM D792	ASTM D2240	KLJ TM	ISO 4649
1	CM-N1	Should be free from contamination, hard particles, bubbles & Pin holes	0.25±0.05	43±3	56-58	N.A	Compression Molding					
2	CM-T1		0.25±0.05	43±3	59-61	N.A	Compression Molding					
3	CM-N1 BK DR		0.25±0.05	40±4	51±2	N.A	Compression Molding					
4	KS-N1 BK (P) S2M		0.25±0.05	47±4	38±2	N.A	Injection Molding					
5	KS N1 BK IM (F)		0.25±0.05	43±3	40±2	N.A	Injection Molding					
6	KS-N1		0.25±0.05	48±2	46±2	N.A	Injection Molding					
7	KS-EXPH-1.35		0.35±0.05	55-60	32-38	N.A	Injection Molding					
8	KS-EXPH-1.40		0.25±0.05	55-60	38-46	N.A	Injection Molding					
9	KS-EXPH-1.43		0.25±0.05	55-60	40-47	N.A	Injection Molding					
10	KJ/EXP/R/CM-T1 RUBBERISED		0.25±0.05	20±4	57-63	N.A	Compression Molding /Injection Molding					
11	EVA 5033 BT 5		0.33±0.04	33±4	50±4	≤ 250	Injection Molding Unit Sole					

As per requirement all grades are available in different colors, different hardness and different expansion

The properties of the compounds are indicative & represent the values as tested in our laboratories. There is no warranty/guarantee whatsoever.*

The suitability of the particular application may be verified before use.

FOOTWEAR COMPOUND

TPR

S. No.	PARAMETER	Colour	Specific Gravity	MFI	Hardness	Tensile Strength	Elongation at break	Tear Strength	Abrasion Resistance	Ross Flex-cut growth less than 6 mm in 80K cycles	Bennewart Flex-cut growth less than 6 mm in 30K cycles	Surface look	Application
	GRADE NAME	visual											
	Unit	-											
	TEST METHOD	KLJ-TM											
			ASTM D792	ASTM D1238	ASTM D2240	ASTM D412	ASTM D412	ASTM D624	ISO 4649	KLJ INTERNAL	SATRA TM-161		
1	KT-TS7/60		0.92±0.02	≥ 35	60±3	≥ 55	≥ 650	≥ 26	≤ 165	Pass	Pass	Transparent	Footwear Soles
2	SPX-60		0.92±0.02	≥ 50	60±3	≥ 55	≥ 650	≥ 26	≤ 200	Pass	Pass	Transparent	Footwear Soles
3	STR-60		0.92±0.02	≥ 30	60±3	≥ 55	≥ 650	≥ 20	≤ 150	Pass	Pass	Transparent	Footwear Soles
4	C-5/60		0.92±0.02	≥ 35	60±3	≥ 55	≥ 650	≥ 26	≤ 165	Pass	Pass	Shiny	Non Marking Footwear
5	KT-M 15/60		0.98±0.02	≥ 40	60±3	≥ 45	≥ 500	≥ 24	≤ 220	Pass	Pass	Semi Matt	General Purpose Footwear
6	KTL 28/60		0.94±0.02	≥ 50	60±3	≥ 50	≥ 700	≥ 22	≤ 200	Pass	Pass	Translucent	Sports Shoes / Soles
7	KT-L29/60		0.94±0.02	≥ 40	60±3	≥ 60	≥ 600	≥ 22	≤ 200	Pass	Pass	Translucent	Thin & Stitchable Sole
8	KT-L20/60		0.96±0.02	≥ 35	60±3	≥ 50	≥ 600	≥ 20	≤ 220	Pass	Pass	Translucent	Soles
9	S-6020 HL		0.94±0.02	≥ 35	60±3	≥ 50	≥ 550	≥ 20	≤ 200	Pass	Pass	Translucent	Soles
10	SFC HM-60		0.96±0.02	≥ 30	60±3	≥ 40	≥ 500	≥ 21	≤ 250	Pass	Pass	Matt	High Matt Soles
11	SFC SM-60		0.96±0.02	≥ 30	60±3	≥ 40	≥ 440	≥ 22	≤ 250	Pass	Pass	Semi matt	Semi Matt Soles
12	KT-NM/60		0.97±0.02	≥ 40	60±3	≥ 50	≥ 550	≥ 25	≤ 230	Pass	Pass	Shiny	Footwear / Non Marking
13	MFH-60		0.99±0.02	≥ 20	60±3	≥ 42	≥ 425	≥ 20	≤ 220	Pass	Pass	Semi matt	Footwear Semi Matt
14	KT-M-10/60		0.99±0.02	≥ 35	60±3	≥ 35	≥ 450	≥ 22	≤ 240	Pass	Pass	Semi matt	General Soles
15	MFL-60		0.99±0.02	≥ 40	60±3	≥ 40	≥ 440	≥ 20	≤ 250	Pass	Pass	Shiny	General Soles
16	KT-V-09/60		1.01±0.02	≥ 35	60±3	≥ 38	≥ 400	≥ 18	≤ 280	Pass	Pass	Shiny	General Soles
17	KLJ BD-60		1.015±0.02	≥ 35	60±3	≥ 38	≥ 400	≥ 21	≤ 280	Pass	Pass	Shiny	Soles
18	SPO 60		1.00±0.02	≥ 35	60±3	≥ 35	≥ 440	≥ 22	≤ 250	Pass	Pass	Shiny	Soles
19	DC A2 60		1.00±0.02	≥ 45	60±3	≥ 40	≥ 520	≥ 20	≤ 250	Pass	Pass	Shiny	Soles
20	KT LF 60		0.99±0.02	≥ 35	60±3	≥ 45	≥ 560	≥ 22	≤ 200	Pass	Pass	Shiny	Soles
21	KTL 17 60		0.98±0.02	≥ 40	60±3	≥ 45	≥ 500	≥ 22	≤ 230	Pass	Pass	Translucent	Soles
22	CLK 60N		0.96±0.02	≥ 45	60±3	≥ 45	≥ 600	≥ 24	≤ 200	Pass	Pass	Shiny	Soles
SPECIAL GRADES													
23	KT-GT/60		0.92±0.02	≥120	60±3	≥ 55	≥ 600	≥ 22	≤ 190	Pass	Pass	Matt Rubber look	Rubberised / High Matt And Dual Matt
24	KT-GE2/60		0.92±0.02	≥ 40	60±3	≥ 55	≥ 650	≥ 22	≤ 200	Pass	Pass	Matt Rubber look	Rubberised / High Matt And Dual Matt
25	KT-C21/60		0.92±0.02	≥ 35	60±3	≥ 55	≥ 650	≥ 24	≤ 240	Pass	Pass	Matt Rubber look	Rubberised / High Matt And Dual Matt
26	FL-70		0.92±0.02	≥ 40	70±3	≥ 45	≥ 400	≥ 22	≤ 220	Pass	Pass	Matt	Footwear-dual Matt- Finish Sole
27	KT-C23/60		0.93±0.02	≥ 35	60±3	≥ 60	≥ 650	≥ 27	≤ 240	Pass	Pass	Matt	Thin Sole
28	HT 75		0.92±0.02	≥ 60	75±3	≥ 75	≥ 600	≥ 30	≤ 200	Pass	Pass	Matt	Thin & Stitchable Sole
29	LA 60		0.94±0.02	≥ 30	60±3	≥ 50	≥ 600	≥ 25	≤ 120	Pass	Pass	Shiny	Low Abrasion Footwear
30	KT I-1/60 WF CORK		0.96±0.02	NA	60±3	≥ 35	≥ 400	≥ 22	≤ 250	Pass	Pass	Cork look	Footwear Cork
31	KPU 70		1.06±0.02	≥ 30	70±3	≥ 100	≥ 500	≥ 45	≤ 100	Pass	Pass	Semi matt	Tpu Look, Very Low Abrasion
32	KT FC 6 60		0.60±0.03	≥ 35	60±3	≥ 35	≥ 460	≥ 18	≤ 280	Pass	Pass	Matt	Light Weight Out Sole
33	KT FCM 6 60		0.60±0.03	≥ 25	60±3	≥ 20	≥ 350	≥ 10	≤ 500	NA	NA	Matt	Super Light Mid Sole
34	KTC 86		0.99±0.02	30±5	86±2	≥ 50	≥ 600	≥ 25	≤ 225	NA	NA	Semi matt	Shoe Welt
35	KTC 64		0.98±0.02	30±5	64±3	≥ 45	≥ 600	≥ 22	≤ 300	NA	NA	Semi matt	Shoe Welt
36	GX 65		0.94±0.02	≥ 45	65±3	≥ 50	≥ 650	≥ 24	≤ 200	Pass	Pass		Soles

As per requirement all grades are available in different colors and Hardness 40 to 80 Shore A. Properties may vary with change in Hardness.

All our TPR grades are REACH Compliant .

We are a certified member of SATRA.

The above properties are indicative and represent the values as tested in our laboratories. There is no guarantee / warranty whatsoever.

Suitability of the product for particular application may be verified before use.





Trust Built on Performance

Green Cloud - Lite

SR. No.	GRADE	FOAM	HARDNESS	THERMAL	TENSILE	ELONGATION	ABRASION	PHTHLATE	BENNEWERT FLEX @50000 CYCLE***	RECOMMENDED PROCESSING TEMP.	APPLICATIONS
Units →		g/cc	Nos.	Minutes(min)	Kg/cm ² (min)	% (min)	mm ³	PPM	mm	°C	
TEST METHOD →		KLJ TM	ASTM D	IS 5831	ASTM D 638		ISO4649 Type A	KLJ TM	SATRA TM-161	---	
1	DCN 65 PF NATURAL/COLOUR	0.60 ± 0.05	65±3	50	40	100	450	<100	Pass	150-200	Light Weight, superior surface finish soles Shoe Soles
2	DC 65 PF NATURAL/COLOUR	0.60 ± 0.05	65±3	50	40	100	N.A	<100	Pass	150-200	Light Weight, superior surface finish soles Shoe Soles
3	DCT 65 300 PF NATURAL/COLOUR	0.60 ± 0.05	65±3	50	40	100	300	<100	Pass	150-200	Light Weight, Abrasion resistance Shoe Soles
3	DCT 65 200 PF NATURAL/COLOUR	0.60 ± 0.05	65±3	50	40	100	250	<100	Pass	150-200	Light Weight superior surface finish and highly abrasion resistant.
4	BM-95 EXP DC PF NAT/COL	0.45 ± 0.05	95±3	40	--	--	--	<100	--	140-175	Light Weight High Heel Soles

REMARKS:

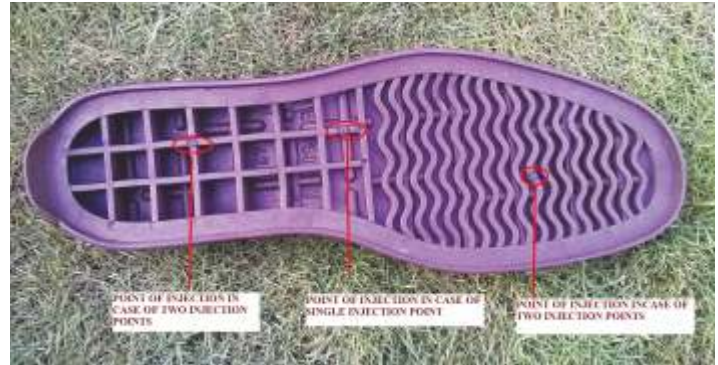
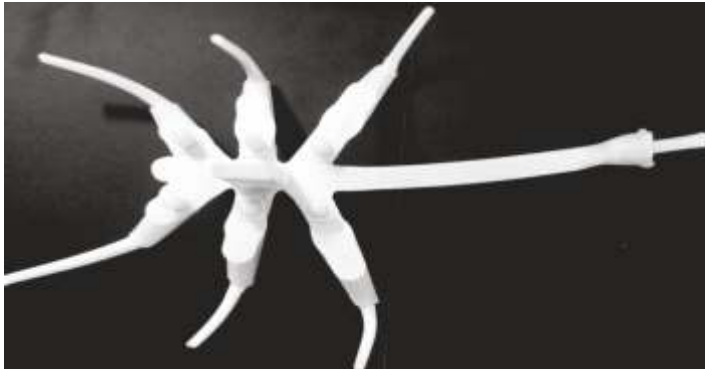
- All The values shown are the average values of the lot as tested in our lab and must be taken as a guideline only.
- Foam density & Abrasion results are obtained on a three step sheet of thickness 8 mm and Bennewert flex on sole molded on our lab horizontal molding machine at temperature 160-170. Results may vary from article to article.
- The point/s of injection in sole mold should be 3-7 mm conical shaped and runners to be 10-12 mm round shaped with minimum flow restrictions. Based on thickness and length of sole, number of injection points are to be designed, so that there is optimum filling of mold.

Special Note :

- Green cloud vinyl compounds have been developed over the years to be an extremely light material. This is possible due to new revolutionary expanded use of the compound.
- Green cloud vinyl compound is not just light but its microcellular structure gives exceptional characteristics like resistance to prolong stress, flexing, slip and ageing.
- All Grades are ROHS and REACH compliant.

Disclaimer:

The specifications given are for guidelines only. The compound is designed to run on different machine, however some adjustments may be required on individual machine. There is no guarantee and / or warrantee what so ever, After processing in any case, our liability shall be restricted to the replacement of material in packed condition. Customers are to check the quality, prior to commercial use. All properties are tested as per standards mentioned above. Any data may change without prior information and do not constitute the agreed quality of our compound.



DISCLAIMER: The specifications given for all Footwear Compounds are for guideline only. The compound is designed to run on different machines, however some adjustments may be required on individual machine. There is no guarantee and/or warrantee whatsoever, after processing. In any case, our liability shall be restricted to the replacement of material in packed condition. The customers are advised to check the quality, prior to commercial use. All properties are tested as per standards mentioned above. Any data may change without prior information and do not constitute the agreed quality of our compound.



KLJ Polymers & Chemicals Limited is a member of SATRA for all its Footwear Compounds.





TPR LITE



KLJ GROUP
SINCE 1967



**GREEN
CLOUD LITE**



EVA LITE



KLJ GROUP
SINCE 1967

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