



TPR LITE



GREEN CLOUD LITE



EVA LITE



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#AN.20FOOTWEAR



**KLJ GROUP**  
SINCE 1967



*... sustaining life with material footprints*

**TOTAL SOLUTIONS IN FOOTWEAR COMPOUND**





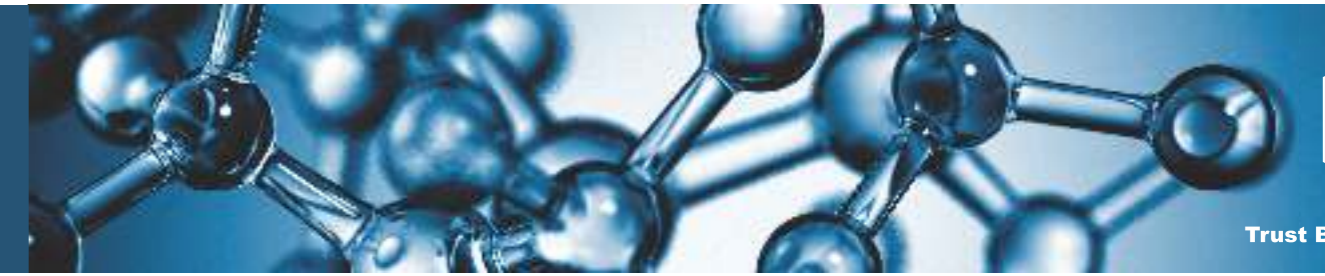
World Class Plants strategically located in India with installed capacity of Compounding aggregating over 100,000 tpa.

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

# FOOTWEAR COMPOUND



Trust Built on Performance

**PVC - Compact**

S.NO.	GRADE	SPECIFIC GRAVITY							RECOMMENDED PROCESSING TEMP	APPLICATIONS	
		HARDNESS (SHORE A)		THERMAL STABILITY @200°C		TENSILE STRENGTH		ELONGATION AT BREAK			
		ASTM D792	ASTM D2240	IS 5831	MINUTES (MIN)	KG/CM <sup>2</sup> (MIN)	% (MIN)	% (MAX)			°C
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	145-180	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							RECOMMENDED PROCESSING TEMP	APPLICATIONS	
		HARDNESS (SHORE A)		THERMAL STABILITY @200°C		TENSILE STRENGTH		ELONGATION AT BREAK			
		ASTM D792	ASTM D2240	IS 5831	MINUTES (MIN)	KG/CM <sup>2</sup> (MIN)	% (MIN)	% (MAX)			°C
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 (Foam Density)	0.60 ± 0.05	65 ± 3	20	25	100	1.0	140-170	Artistic 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 <sup>2</sup>		ABRASION RESISTANCE		APPLICATIONS FOOT WEAR
		—		—		SHORE A		%		MM <sup>3</sup>		
		KLJ TM	—	ASTM D792	ASTM D2240	KLJ TM	—	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	—	—	—	—	—	Compression Molding
2	CM-T1		—	0.25±0.05	43±3	59-61	—	—	—	—	—	Compression Molding
3	CM-N1 BK DR		—	0.25±0.05	40±4	51±2	—	—	—	—	—	Compression Molding
4	KS-N1 BK (P) SZM		—	0.25±0.05	47±4	38±2	—	—	—	—	—	Injection Molding
5	KS N1 BK IM (F)		—	0.25±0.05	43±3	40±2	—	—	—	—	—	Injection Molding
6	KS-N1		—	0.25±0.05	48±2	46±2	—	—	—	—	—	Injection Molding
7	KS-EXPH-1.35		—	0.35±0.05	55-60	32-38	—	—	—	—	—	Injection Molding
8	KS-EXPH-1.40		—	0.25±0.05	55-60	38-46	—	—	—	—	—	Injection Molding
9	KS-EXPH-1.43		—	0.25±0.05	55-60	40-47	—	—	—	—	—	Injection Molding
10	KJ/EXP/RCM-T1 RUBBERISED		—	0.25±0.05	20±4	57-63	—	—	—	—	—	Compression Molding /Injection Molding
11	EVA 5033 BT 5		—	0.33±0.04	33±4	50±4	—	—	—	—	—	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.

**TPR**

S. No.	PARAMETER	Colour	TPR																					
			GRADE NAME	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										
															visual	ASTM D792	ASTM D1238	ASTM D2240	ASTM D412	ASTM D412	ASTM D624	ISO 4649	KLJ INTERNAL	SATRA TM-161
															Unit	gm/10Min	Shore A	Kg/cm <sup>2</sup>	%	Kg/cm	mm <sup>2</sup>	-	-	
1	KT-TSM/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											
<b>SPECIAL GRADES</b>																								
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.