



**PT LENKO SURYA PERKASA**

## Laporan Pengelompokan Produk PT. Lenko Surya Perkasa Sidoarjo Tahun 2018

Dibuat Oleh: lenkoadmin

5

Tahun 2018

### Hasil Pengelompokan Data Produk

Berikut adalah Medoid dan Hasil Pengelompokan Data Produk PT. Lenko Surya Perkasa pada Tahun 2018

### Tabel Medoid Data Produk

Karakteristik produk dapat dilihat dari karakteristik medoid tiap cluster.

Produk	Produk Rusak	TOR	WSP	Cluster
Mkp Nelico 60 ml	4	0.0	0.0	0
Nasa Napkin e-xtra 30's	59	0.003663003663003663	99645.0	1
OBH Jahe 55 ml	54	5.6	65.17857142857143	2
Flukol X-tra box	1400	0.0	0.0	3
OBH Anak Sachet	1410	0.01411764705882353	25854.166666666664	4

# Tabel Hasil Pengelompokan Produk

Produk yang telah dikelompokkan dapat dilihat pada tabel dibawah. Tabel telah diurutkan berdasarkan cluster.

Produk	Produk Rusak	TOR	WSP	Cluster
Dermol	0	0.0	0.0	0
Monalisa Maternity	0	2.2615384615384615	161.39455782312925	0
Roll Tanpa Kor Polos @ 10	0	0.0	0.0	0
Rh.Balsem Sereh 15 gr	0	0.0	0.0	0
Rh. Aromatherapy	24	0.0	0.0	0
Rh. Minyak Angin Putih roll on	49	0.43037974683544306	848.0882352941176	0
Rod Lotion 100 ml	0	0.0	0.0	0
Rod Lotion 60 ml	13	0.0	0.0	0
Rod Powder 60 gr	25	0.4700854700854701	776.4545454545455	0
Rod Powder 100 gr ( 1C=144	14	1.3725490196078431	265.92857142857144	0
Rod Powder Nat 60 gr	61	0.3163265306122449	1153.8709677419354	0
Rod Powder Nat 100 gr	77	0.5643564356435643	646.7543859649123	0
IPS 104	77	0.0	0.0	0
Salicyl Mentol 90 gr @ 6 ls	0	2.0	182.5	0
Salicyl Non Mentol 90 gr	42	0.13333333333333333	2737.5	0
Salicyl Cool n Fresh	33	0.14067278287461774	2594.6739130434785	0
Salicyl genesis 60 gr@ 18 ls	9	2.4	152.08333333333334	0
Dinner Napkin	0	0.0	0.0	0
Facial polos small	0	0.0	0.0	0
Facial Travel Pack 50's	0	1.6637703060068	219.38124432334243	0
Facial Travel Pack Mini	5	2.472560975609756	147.62022194821208	0
IPB 101 @36	0	0.0	0.0	0
IPB 102 @72	0	2.221317040054311	164.3169315403423	0
IPM 104 @36	17	0.0	0.0	0
IPN 104 @36	0	2.148550724637681	169.88195615514334	0
IPN 110 @36	36	1.5368421052631578	237.50000000000003	0
IPS 102 @36	0	0.2878787878787879	1267.8947368421052	0
IPS 110 @36	32	2.515769944341373	145.08480825958702	0
Monalisa Special 8	0	0.0	0.0	0
Monalisa Plus 6	0	0.0	0.0	0
Rh.Classic 15 gr	19	0.0	0.0	0

Produk	Produk Rusak	TOR	WSP	Cluster
Rh. Minyak Gosok 60 ml	0	0.0	0.0	0
Rh.Classic 18 gr (kaca)	76	0.0	0.0	0
Sunbrite sabut cuci	0	0.1480973603016798	2464.5949074074074	0
OBH Anak Straw 100 ml	153	0.5591397849462365	652.7884615384615	0
IPB 103	0	0.0	0.0	0
OBH Anak Orange 100 ml	237	0.20924574209245742	1744.360465116279	0
Lauramox	60	0.5	730.0	0
IPA 105	67	1.0037037037037038	363.6531365313653	0
Dermol	0	0.013422818791946308	27192.5	0
IPA 110	0	0.0	0.0	0
IPA 103	54	0.0	0.0	0
Minyak kayu putih 30 ml	0	0.0	0.0	0
Minyak kayu putih 60 ml	0	0.0	0.0	0
Minyak Telon 30 ml	0	0.0	0.0	0
Minyak Telon 60 ml	0	0.0	0.0	0
Nellcoplus 100 ml	79	1.5856777493606138	230.18548387096774	0
Rh. Minyak Gosok 30 ml	0	0.0	0.0	0
Nellcoplus 55 ml	3	2.0397350993377485	178.94480519480518	0
Monalisa Plus 12	0	0.0	0.0	0
O B H Berdahak 55 ml	112	2.6149732620320854	139.58077709611453	0
Rh. Green balm I	8	0.5627836611195158	648.5618279569893	0
OBH sachet 7.5 ml 25'	43	1.688388625592417	216.1824561403509	0
Sunbrite Spon	0	0.040387042490534285	9037.552083333334	0
OBH anak 55 ml	241	1.3480662983425415	270.75819672131144	0
OBH anak 30 ml	9	0.0	0.0	0
OBH anak 100 ml	301	0.1645021645021645	2218.815789473684	0
Mkp Nellco 60 ml	4	0.0	0.0	0
OBH Berdahak 100 ml	123	0.4227005870841487	863.4953703703704	0
OBH 30 ml	22	0.0	0.0	0
Minyak Telon Nellco 60 ml	0	0.0	0.0	0
Minyak Telon Nellco 30 ml	0	0.0	0.0	0
IPA 108	0	0.0	0.0	0
IPA 111	0	0.0	0.0	0
Mkp Nellco 30 ml	71	0.0	0.0	0
Nasa Napkin e-xtra 30's	59	0.003663003663003663	99645.0	1
Nasa Roll	207	6.075742600010404	60.07496104251931	2
Nasa Napkin	190	8.202055685662243	44.50103900636094	2

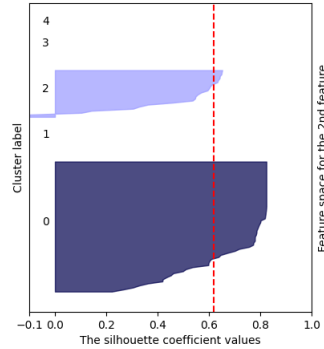
Produk	Produk Rusak	TOR	WSP	Cluster
Roll Tanpa Kor @ 20	0	5.6242711370262395	64.89729799779693	2
PHB 54	23	4.25204117855875	85.84112539656037	2
OBH Anak Straw 55 ml	10	7.014409221902017	52.03574363188168	2
Martell lembaran 1/2 kg	19	4.842105263157895	75.3804347826087	2
OBH Anak Orange 55 ml	8	5.160762942779291	70.72597676874341	2
Dexanel	3	3.9393939393939394	92.65384615384615	2
Kalk tab 30'	12	8.100418410041842	45.05940082644628	2
OBH Spc Jahe 100 ml	85	4.805194805194805	75.95945945945945	2
OBH Madu 100 ml	146	3.953846153846154	92.31517509727627	2
OBH Jahe 55 ml	54	5.6	65.17857142857143	2
OBH Madu 55 ml	64	7.160975609756098	50.97070844686648	2
Monalisa Jumbo	0	5.827956989247312	62.62915129151291	2
OBH 100 ml	10	5.470528455284553	66.72115920490432	2
Rh. Inhaler	6	2.9283018867924526	124.64561855670104	2
Rh. White cream 18 gr	157	7.413037627173386	49.23757551992564	2
Salicyl Non Mentol 60 gr	38	3.369341563786008	108.32977099236642	2
Aloha Ecopack 56's	38	7.292748433303491	50.049717652835746	2
Facial polos large	17	3.8115942028985508	95.76045627376426	2
IPA 102 @72	35	3.2954545454545454	110.75862068965517	2
Martell lembaran 1 kg	0	9.297297297297296	39.25872093023256	2
OBH 55 ml	9	8.454406520631686	43.17275247047481	2
Salicyl menthol 60 gr@ 18 ls	30	2.9143101970865466	125.2440458688621	2
Flukol X-tra box	1400	0.0	0.0	3
OBH Anak Sachet	1410	0.01411764705882353	25854.166666666664	4

# Visualisasi Silhouette Score Data Produk

Silhouette Score :  
0.6186627635060363

**Silhouette analysis for KMeans clustering on sample data with n\_clusters = 5**

The silhouette plot for the various clusters.



The visualization of the clustered data.

