

Anderson Development Company

Dynamic Coefficient of Friction - Urethane on Steel



PTMEG Backbone

Product	Hardness	COF
82DGP	85	0.162
75DGP-2	76	0.142
1-75DP	73	0.115
75DPLF	72	0.106
70DPLF	66	0.102
2-72DP	63	0.111
AL70DP	63	0.157
2-60 DP	61	0.153
AL62DP	58	0.119
H60-2DP	57	0.192
60DPLF	57	0.146
AL95AP	96	0.156
95AP	96	0.209
H95-2AP	95.5	0.276
2-95 AP	95.5	0.186
95APLF	95	0.190
1-95AP	95	0.245
2-92AP	93	0.252
93APLF	93	0.260
AL92AP	92	0.216
2-90AP	90	0.277
AL90AP	90	0.252
90 AP	90	0.352
AL80-5AP/FP	88	0.314
90APLF	88	0.440
AL 80-5 AP	86	0.598
85APLF	85	0.465
80-5AP	85	0.673
1-83AP	85	0.640
80APLF	80	1.137
70APLF	70	1.837

Polyester Backbone

Product	Hardness	COF
7DPLM	66.5	0.115
6DPLM	59	0.137
5DPFLM	46	0.201
5DPLM	45	0.194
9-5APLF	96	0.198
9APFLM	93	0.179
9APLM	90	0.244
9APLF	90	0.250
8-5APLF	89	0.259
8-6APSLM	86.5	0.367
8-5APLS	86	0.442
8-7APSLM	85	0.268
1-8APLM	82	0.353
8APFLM	82	0.550
8APLM	80.5	0.556
8-3APLF	80.5	0.604
8APLF	80	0.857
7-1APLS	75	0.791
XP-169	71	1.252
7APLM	70	0.664
6APLM	60.5	2.751

PPG Backbone

Product	Hardness	COF
7501DPLF	75	0.162
7501DP	74	0.158
6500DPLF	62	0.193
9500APLF	96	0.181
9500AP	95	0.223
9200AP	93.5	0.193
9200AP	92	0.216
9000AP	89	0.241
9000AP	89	0.248
8500AP	86	0.422
8200 AP	83	0.416
8000 AP	77	0.645
8000APLF	78	1.041
7003AP-M	65	0.866
6000AP	62	2.458

Ether/Ester Backbone

Product	Hardness	COF
800DP	75	0.153
950AP	94	0.234
2-920AP	92	0.189
850AP	87	0.364
800AP	81	0.653

Explanation of COF

The dynamic COF is the ratio of the force it takes to move an object across a surface to the force (weight) that object is exerting on the surface. The measurement is taken after the object is already in motion. This data represents an average of four specimens pulled across steel for an approximate length of six inches. The general trend is as hardness increases, the COF decreases.