Dynamic Coefficient of Friction - Urethane on Steel

PTMEG Backbone

Product	Hardness	COF
81 DP	82D	tbd
80 DPLF	80D	tbd
1-75 DP	73D	0.115
75 DPLF	72D	0.106
70 DPLF	66D	0.102
2-72 DP	63D	0.111
2-60 DP	61D	0.153
60 DPLF	56.5D	0.146
AL 95 AP	96A	0.156
95 AP	96A	0.209
2-95 AP	95.5A	0.186
95 APLF	95A	0.190
2-92 AP	93A	0.252
93 APLF	93A	0.260
AL 92 AP	92A	0.216
2-90 AP	90A	0.277
AL 90 AP	90A	0.252
90 AP	90A	0.352
90 APLF	88A	0.440
AL 80-5 AP	86A	0.598
85 APLF	85A	0.465
80-5 AP	85A	0.673
1-83 AP	85A	0.640
80 APLF	80A	1.137
70 APLF	70A	1.837

Polyester Backbone

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

PPG Backbone

Product	Hardness	COF
7501 DPLF	75D	0.162
6500 DPLF	62D	0.193
9500 APLF	96A	0.181
9500 AP	95A	0.223
9200 AP	93A	0.204
9000 AP	89A	0.245
8500 AP	86A	0.422
8200 AP	83A	0.416
8000 AP	77A	0.645
8000 APLF	78A	1.041
7003 AP-M	65A	0.866
6000 AP	62A	2.458

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.

Anderson Development Company