

APAN ETHER SERIES

Thermoplastic polyurethane polyether type with high mechanical properties and hydrolysis resistance, good abrasion resistance and high properties at low temperature

Properties Method	Unit	APAN WA65	APAN WA75E	APAN WA85X	APAN WA85E	APAN WA85P	APAN WA85V	APAN WA90V	APAN VA90	APAN WA95X	APAN WA54D	APAN WA65D
Hardness DIN ISO 48-4	Shore A	68	75	86	86	89	88	90	92	94	-	-
Hardness DIN ISO 48-4	Shore D	-	-	-	-	-	-	-	-	-	54	64
Density DIN EN ISO 1183-1	g/cm ³	1,08	1,09	1,12	1,11	1,14	1,22	1,24	1,13	1,14	1,16	1,18
Tear strenght DIN ISO 34-1	N/mm	50	65	80	80	65	60	65	60	100	130	150
Tensile modulus 300% elong. DIN 53515	MPa	7	8	10	10	12	12	13	15	18	35	40
Tensile strength DIN 53504	MPa	30	35	40	35	35	25	30	25	45	45	50
Elongation at break DIN 53504	%	750	650	600	600	600	600	550	450	500	400	350
Elastic modulus ISO 527	MPa	-	-	-	-	-	-	-	-	-	170	240
Abrasion resistance DIN ISO 4649	mm ³	40	40	30	30	40	40	30	120	30	30	30
Note	-	A - C	B - C	B - C	B - C - E	B - V2M	B - V0	B - V0	B - D	B - C	B - C	A - C

NOTE: **A:** injection grade; **B:** extrusion and injection grade; **C:** food contact material approved; **D:** TPU with C3 ether; **E:** low temperature resistant material; **V2M:** Flame Resistant as UL94/V2, matt surface; **V0:** Flame Resistant as UL94/V0

Typical properties are to be considered as representative of current production and should not be treated as specifications. The values are obtained from test specimen, gotten by injection moulding and conditioned for 24 hs at 100°C