

TPU – PVC Salt-Pepper Blending

		100/0	75/25		50/50		0/100	
Unit		PVC	58213	CP80A	58213	CP80A	58213	CP80A
Hardness	Shore A	74	75	73	74	74	75	76
Density	g/cm ³	1.30	1.26	1.26	1.24	1.22	1.19	1.15
Mod. 50%	MPa	6.5	4.9	4.4	3.2	3.1	2.5	3
Mod 100%	MPa	9.7	6.7	6.4	4.3	4.6	3	3.5
Mod 300%	MPa	-	13	13.1	8.6	9.8	4.8	8
Tensile strength	MPa	15	21.8	22.7	29.3	27.7	33.8	34.3
Elongation	%	232	495	493	606	557	730	615
Tear strength	kN/m	19	35	41	33	39	37	44
Abrasion	mm ³	284	197	174	118	102	27	77

Adding TPU Improves Tear and Tensile properties

TPU – PVC LOW TEMP MODULI (G') Mpa

	100/0	75/25		50/50		0/100	
	PVC	58213	CP80A	58213	CP80A	58213	CP80A
10°C	35	16.3	11.2	10.4	13	8.32	23.1
0°C	88	41.2	29.7	18.7	23.2	9.36	33
-10°C	209	112	110	39.5	68.9	11.2	39.5
-20°C	456	293	346	108	255	19.4	47.6
-30°C	874	730	740	438	682	104	122
-40°C	1377	1313	1191	1071	1160	780	582
-50°C	1787	1654	1562	1382	1492	1170	1101
-60°C	2003	1834	1766	1533	1697	1285	1240
-70°C	2120	1944	1874	1635	1804	1360	1313
-80°C	2198	2033	1955	1726	1882	1447	1390
-90°C	2263	2122	2036	1832	1963	1571	1501

Adding TPU Improves Cold Flex