



Performance data of PTFE compounds

Test method	Filler	Filler content (% by weight)	Filler content (% by volume)	ASTM 1457	ASTM 1457-81	ASTM 1457-81	ASTM 1457-81	DIN 62 159 similar to ASTM	DIN 52612
Material-Nr.				Density g/cm ³	Tear resistance N/mm ²	Elong-ation at break%	Ball pressure hardness N/mm ²	Deformation under load %	Thermal conductivity W/m x k
0200	none	0	0	2,15	40	380	26	15,5 - 17,2	0,25
*1D/0200	none	0	0	2,17	30	500	35	8,2 - 9,0	0,25
0315	Fibre-glass	15	13	2,21	17	340	29	17	0,38
0315x**	Fibre-glass	15	13	2,21	18,5	200	29	9,5	0,35
0320	Fibre-glass	20	17	2,23	16	300	29	15	0,35
0325	Fibre-glass	25	22	2,24	16	320	34	15	0,40
0325x**	Fibre-glass	25	22	2,24	20	120	42	6,0 - 7,0	0,40
*1D/0325	Fibre-glass	25	22	2,24	16	350	41	6,5	0,40
*1D/0325x**	Fibre-glass	25	22	2,24	16	100	50	3,9 - 4,9	0,40
0410	Carbon	10	11	2,14	22	350	30	11,0 - 13,0	
0425	Carbon	25	27	2,09	14	190	38	5,5 - 6,5	0,70
*1D/0425	Carbon	25	27	2,09	14	40	37	4,0 - 4,5	0,70
*1D/0433	Carbon	33	36	2,05	16	30	44	3,1	0,93
0560	Bronze	60	28	3,85	14	105	40	8,4	0,71
0850	Stainless steel	50	-	3,32	19	105	45	4,0	0,71
1215	Graphite	15	15	2,1	16	170	32	11,3	0,93

*1 D = Resistance to pressure + reduced cold flow

x** = Special sintering

Diverse performance data on PTFE bear testimony to this material's wide array of positive features.