

Thermoplastic Properties

Physical properties	DIN - standard ASTM - standard	Unit	THERMOPLASTIC						
			POM	PA6	PTFE-1	PTFE-2	PTFE-3	PTFE-4	PEEK-1
Colour			White	White	White	Grey	Brown	Black	Cream
Hardness	53505 2240	Shore A							
Hardness	53505 2240	Shore D	85	85	58	60	64	65	85
Density	53479	g/cm ³	1.41	1.15	2.16	2.25	3.08	2.08	1.32
100% modulus	53504	N/mm ²							
300% modulus	D412								
Tensile strength	53504/53455 D412	N/mm ²	65	85	28	18	25	16	103
Elongation at break	53504/53455 D412	%	40	250	350	245	225	95	40
Modulus of elasticity tensile test	53457	N/mm ²	2760	2760					3100
Compression set									
70°C/23h 25%Def	53517 D395	%							
70°C/70h 25%Def	53517 D395	%							
100°C/22h	53517	%							
175°C/22h	53517	%							
Rebound resilience	53512 D2632	%							
Tear strength	52512 D624	N/mm ²							
Abrasion	53516	mm ³							
min. service temp.		°C	-60	-40	-200	-200	-200	-200	-60
max. service temp.		°C	+100	+105	+260	+260	+260	+260	+250