



Urethane Material Properties

Materials	Hardness Shore	Tensile Strength (psi)	Tensile Modulus (psi)	Elongation %	Tear Strength (psi)	Flexural Strength (psi)	Flexural Modulus (psi)	Izod Impact (ft.-lb./in.)	Heat Deflection Temp. (@66psi)	Index of Refraction
ASTM Test	D-2240	ASTM (as noted)	D-638	ASTM (as noted)	D-624	D-790	D-790	D-256	D-648	D-542
P PolyCarbonate Like / BJB WC-792	(D) 84+/-2	(D-638) 8,300	270,000	(D-638) 20		11,200	300,000	1.1	175°F (79°C) @66psi	1.49
P ABS Like (STD) / BJB WC-792	(D) 84+/-2	(D-638) 8,300	270,000	(D-638) 20		11,200	300,000	1.1	175°F (79°C) @66psi	1.49
A ABS Like (Med Temp) / BJB TC- 892	(D) 80+/-2	(D-638) 7,600	240,000	(D-638) 10		10,000	250,000	0.7	177°F (81°C) @264psi	
P ABS Like (High Temp) / RoyalCast 3101A/B	(D) 79+/-2	(D-638) 6,600		(D-638) 12		9,000	210,000	0.7	225°F (107°C) @264 psi	
P Polypropylene Like / BJB TC- 8772	(D) 70+/-2	(D-638) 5,025	54,000	(D-638) 480	760	2,070	54,000	>8.8(N)*		
P Polyethylene Like / BJB TC- 9460	(D) 60+/-5	(D-638) 4,800	47,000	(D-638) 325	565	1,590	40,000	14(N)*		
A BJB TC- 8764	(D) 60+/-2	(D-638) 4,400	41,000	(D-638) 310	510	1,430	38,700	>10		
Rubber Like										
A BJB F- 25	(A) 25	(D-412) 345		(D-412) 1,100	45					
A BJB F- 32	(A) 32+/-2	(D-412) 675		(D-412) 950	85					
P BJB ST- 3040	(A) 40+/-2	(D-412) >765		(D-412) >1,500	120					
P BJB ST- 3050	(A) 50+/-2	(D-412) >1,200		(D-412) >1,400	185					
P BJB ST- 1060	(A) 60+/-5	(D-412) 900		(D-412) 590	120					
P BJB WC- 565	(A) 65+/-5	(D-412) 425		(D-412) 150	65					
P BJB WC- 575	(A) 70+/-5	(D-412) 1,370		(D-412) 300	66					
P BJB ST- 1075	(A) 75+/-2	(D-412) 1,600		(D-412) 550	190					
A BJB ST- 3080	(A) 80+/-5	(D-412) 2,700		(D-412) 600	305					
P BJB ST- 1085	(A) 85+/-5	(D-412) 2,125		(D-412) 600	255					
A BJB WC- 590 F.R. ***	(A) 85	(D-412) 1,920		(D-412) 175	210					
A BJB ST- 1087 F.R. ***	(A) 83+/-2	(D-412) 1,500		(D-412) 300	160					
P BJB WC- 595	(A) 90+/-5	(D-412) 4,000		(D-412) 180	375					
P UL94v0 / BJB TC- 892FR**	(D) 80+/-2	(D-638) 6,400	263,000	(D-638) 4.6		11,450	329,000	0.55	183°F (84°C) @264psi	
P Medical & Food Grade / Steralloy 2463	(D) 80+/-3	(D-638) 7,500		(D-638) 6		10,300	198,000	0.2	199°F (93°C) @264psi	
A Shore D Materials / BJB WC- 755	(D) 55+/-5	(D-412) 2,780	14,000	(D-638) 205	300	290		8.6		
A BJB WC- 765	(D) 65+/-5	(D-638) 4,600	31,000	(D-638) 225	460	315		8.9		
A BJB WC- 775	(D) 75+/-2	(D-638) 6,900	270,000	(D-638) 62		7,900	210,000	1.16(N)*		
A BJB TC- 865	(D) 65+/-2	(D-638) 2,475	99,000	(D-638) 70	585	2,875	92,850	0.85		

P = Primary- Available for Instant Quote
 A = Alternate

*Notched Izod

** UL 94 V0 Flammability Rating at 0.125" thickness

***Passes FAR 25.853 Flammability Test

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