



# Urethane Material Specifications

Materials	Hardness Shore	Color	Tensile Strength (psi)	Tensile Modulus (psi)	Elongation %	Tear Strength	Flexural Strength (psi)	Flexural Modulus (psi)	Izod Impact (ft.-lb./in.)	Heat Deflection Temp. (@66psi)
ASTM Test	D-2240		(As noted)	D-638	(As noted)	D-624	D-790	D-790	D-256	D-648
<b>Similar to ABS</b>	(Shore D)		D-638		D-638	(psi)				
RC-8004 FR**	85	Light Tan	6,700	3.2 x 10 <sup>5</sup>	7		10,420	3.1 x 10 <sup>5</sup>	0.51***	220± 5°F (104° ±3°C)
TC-854	84±2	Trans. Light Yellow	10,060	3.3 x 10 <sup>5</sup>	10.5		13,700	3.6 x 10 <sup>5</sup>	1.14	190°±5°F
PT8952 *	85	Trans. Off-white	10,650	381,675	24.5		15,445	424,275	1.6	179°F
RC-79D*	80	Amber	6,000		6%			300,000	0.6	207°F
TP 277-05**										
RC 900	78-82	Light Brown	8,097- 8,916		3.2-4.4		12,883-13721	253,807-306,915	.75 (ppi)	96°C-130°C
PT8902	85	White	10,010	371,155 (D-412)	21.6		15,574	386,612	2.1	190°F
RP 6452	79	Off-White	5,200		12.5		7,900	201,000	1.35	181°F
<b>Similar to Polypropylene</b>	(Shore D)						D-790	D-790	D-256	
TC-8772	70±2	Trans Amber	5025	5.4 x 10 <sup>4</sup>	480	760 (pli)	2,070	54,000	8.8	
TP 4004	70	Trans Yellow	5,500		55%		5,000	115,000	6	250°F
TP 4014 FR**	70	Amber	5,500		55%		4,800	110,000	2.5	221°F
<b>Similar to Rubber</b>	(Shore A)		D-412		D-412	pli	D-790	D-790		
F-31 FR**	30±5	Trans. Neutral	660		1,515	66				
F-41 FR**	40±5	Trans. Neutral	700		1,210	75				
F-62 FR**	60±2	Trans. Pale Yellow	625		310	60				
F-80	80±5	Opaque white	1,900		377	131				
F-90	90±2	Tan opaque	3,000		440	300				
ST-1060	60±2		900		590	120				
ST-1075	75±2		1,600		550	190				
ST-1087 FR**	83±2		1,500		300	160				
<b>Medical &amp; Food Grade</b>			D-638		D-638		D-790	D-790	D-256	D-648
2380	85D	Clear/slight haze	8,000		7		10,500	190	0.23	98°C
<b>Water Clear</b>	(As noted)		D412		(As noted)	(pli)	D-790			
420 Clear	80D	Clear	6,500-7,000		7-8 (D-638)		9,00-10,000	200,00-240,000		140°F
WC-590 FR**	85A	Clear	1,920		175 (D412)	210				
WC-765	65±5D	Clear	4,600	3.1 x 10 <sup>4</sup>	225 (D-638)	460	315		8.9	

\*UL 94 VO Flammability Rated

\*\*Passes FAR PART 25.853 Flammability Test

\*\*\*Notched Izod

