



Rapid Product Solutions, Inc.

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RPS Urethane Casting Materials (Below are only the most common of the 120 urethane formulations RPS uses.)						
Properties	ASTM Method	RPS ABS Like	RPS Elastomer	RPS Flame Retardant	RPS High Temperature	RPS Water Clear
Tensile Strength (PSI)	D 638	7,600	940 (D 412-98a)	6,100	9,100	6,650
Tensile Modulus (KSI)	D 638	240	180 (D 412-98a)	250	290	260
Elongation at Break (%)	D 638	10	800	21	11	65
Tear Strength (pli)	D 624-001e1	—	120	—	—	—
Flexural Strength (PSI)	D 790	10,000	—	10,126	12,200	11,000
Flexural Modulus (KSI)	D 790	250	—	250	300	320
Impact Strength (Ft-lbs/in)	D 256	0.7	—	0.58	0.93	1.0
Heat Deflection Temperature (°F)	D 648	—	—	—	—	—
	@ 66 PSI	195	—	186	215 ± 5	158
	@ 264 PSI	177	—	168	210 ± 5	—
Dielectric Constant, 1 MHZ	D 150-87	—	5.661	3.241	—	—
Dissipation Factor, 1 MHZ	D 150-87	—	0.0618	0.014	—	—
Hardness	—	80 ± 2 D	40 ± 5 A	80 ± 2 D	84 ± 2 D	82 ± 2 D
Flammability	—	—	—	UL 94V-0 Listed	—	—
Color(s)	—	Off White/Opaque	Translucent Amber	White/Opaque	Pale Yellow/Clear	Colorless/Clear

Note: To offer superior quality with a homogeneous color throughout, RPS adds color pigments into the materials instead of painting, when possible.

For more information about advanced prototyping and product solutions, contact us at 805.485.7234 or sales@rapid-products.com.

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