

August 2008

URETHANE	Hardness Shore Scale	Natural Color	Heat Deflection ASTM D-648 (66 psi)	Heat Deflection ASTM D-648(264 psi)	Tensile Strength ASTM D-638	Tensile Strength ASTM D-412	Tear Strength ASTM D-624	Flex Modulus ASTM D-790	Flex Strength ASTM D-790	Elongation %	Notched Izod Impact ASTM ft.lb./in. D-256	Paintable	Intrinsic Color Match	Overmoldable	Good for large castings	Comments
PDG-42A	42A+/-2	translucent yellow				735	65			1080		NO	bad for light color	YES	YES	
PDG-55A	55A+/-2	translucent yellow				700	110			385		NO	bad for light color	YES	YES	
PDG-60A	60A+/-2	translucent yellow				685	57			350		NO	bad for light color	YES	YES	
PDG-62A-FR	60A+/-2	translucent yellow				625	60			310		NO	bad for light color	YES	YES	Will meet FAR 25.853 Flammability test
PDG-70A	70A+/-2	Amber				940	87			315		NO	bad for light color	YES	YES	
PDG-80A	80A+/-2	Off-White				1900	131			377		NO	bad for light color	YES	YES	
PDG-82A	80A+/-2	translucent yellow				2700	305			600		NO	bad for light color	YES	YES	
PDG-90A	90A+/-2	Tan				3000	300			440		NO	bad for light color	YES	YES	
PDG-95A	95A+/-5	Amber				3500	375	14000		475		NO	bad for light color	YES	YES	
PDG-65D	65D+/-5	Amber				3400	550	50000		325		NO	bad for light color	YES	YES	
PDG-67D	70D	Black	270F	255F	4200			57000	3710	120	2.3	YES	Black Only			Flame retardant rating: UL94VO FAA approved
PDG-70D	75D+/-2	White	185F	160F	6100			230000	9250	8	0.5	YES	NO pure colors		YES	
PDG-75D	80D +/- 5	Black		230F	5250			450000	10000	3	0.4	YES	Black Only			Flame retardant rating: UL94VO FAA approved
PDG-77D	80 +/-5	Off White		154F	3700			400000	11350	6	0.7	YES	NO			Flame retardant rating: UL94VO
PDG-79WC	79D+/-2	CLEAR	176F	144F	5400			168000	6600	26.2	1.3	YES	Any Color	YES	YES	
PDG-80D	80D +/-2	Black/Grey	315F	275F	9350			282500	12750	4.9	0.5	YES	Black Only			
PDG-80-GF10	80D +/-2	Black/Grey	320F	285F	8500			310300	13000	4.5	0.6	YES	Black Only			
PDG-80-GF20	80D +/-2	Black/Grey	329F	293F	8160			440000	13500	4	0.7	YES	Black Only			
PDG-81WC	77D +/-5	CLEAR		129F	4700			130000	6100	4	1.3	YES	Any Color	YES	YES	
PDG-82D	79D+/-3	Translucent	175F	147F	8500			248000	11350	12.5	0.6	YES	Almost any color			Most commonly used urethane
PDG-82-GF10	80D +/-2	white	186F	161F	9430			330500	12086	4.3	0.66	YES	Almost any color			
PDG-82-GF20	81D+/-2	white	192F	165F	9899			520000	13805	2.7	0.67	YES	Almost any color			
PDG-84D	82D+/-2	Translucent	144F		8760			309000	11300	5.7	0.68	YES	Almost any color		YES	Used most often for large castings > 60 cubic inches
PDG-85D	85D+/-2	Translucent	158F		11060			409000	14200	4.9	0.51	YES	Almost any color		YES	
PDG-86D	85D+/-2	Translucent	255F	230F	9320			283073	11083	7.7	0.9	YES	Almost any color			
PDG-89D	85D+/-2	white	190F		10010			386612	15574	21.6	2.1	YES	NO pure colors			
PDG-94V-O	84D+/-2	Light Amber	252F		8400			370000	9700	4	0.47	YES	NO pure colors			Flame retardant rating: UL94VO
FDA-250	75-85D	White	185F	176F	7000			275000	12125	10	1.1	YES	Almost any color			FDA approvable
FDA-350	80D+/-3	Translucent	201F	176F	4900			133000	7100	16	0.38	YES	Almost any color		YES	FDA approvable

**Properties are based on 7 cure at room Temperature

**Nickel and Copper shielding is available on all urethanes that are Paintable

**Samples of castable Silicones, Latex, and Urethane Foams are available upon request

**Other Urethanes are available upon request

Objet Material	Hardness Shore Scale	Natural Color	Heat Deflection ASTM D-648 (66 psi)	Heat Deflection ASTM D-648(264 psi)	Tensile Strength ASTM D-638	Tensile Strength ASTM D-412	Tear Strength ASTM D-624	Flex Modulus ASTM D-790	Flex Strength ASTM D-790	Elongation %	Notched Izod Impact ASTM ft.lb./in. D-256	Paintable	Intrinsic Color Match	Overmoldable	Good for large castings	Comments
Dura White 430	76D	Translucent	98F	91F	3089			148785	4814	44	0.83	YES	NO	N/A	N/A	
Fullcure 720	83D	Light Amber	119F	112F	6135			286885	10240	15-20	0.71	YES	NO	N/A	N/A	
Vero Blue 840	83D	Light Blue	120F	112F	7992			287610	12125	15-20	0.79	YES	NO	N/A	N/A	
Vero Wht 830	83D	White	120F	113F	7237			309945	10820	15-20	0.7	YES	NO	N/A	N/A	
Vero Black 870	83D	Black	120F	113F	7237			309945	10820	15-20	0.7	YES	NO	N/A	N/A	
Tango Plus 930	27A	Translucent				210	20			218		NO	NO	N/A	N/A	
Tango Blk 970	61A	Black				290	21			48		NO	NO	N/A	N/A	
Tango Gray 950	75A	Gray				632	53			47		NO	NO	N/A	N/A	

Silicone	Hardness Shore Scale	Natural Color	Temperature Range	Tensile Strength ASTM D-412	Tear Strength ASTM D-624	Elongation %	Paintable	Intrinsic Color Match	Overmoldable	Good for large castings	Comments
PDG-T100	32A	Blue	-60 to 350F	525	120	300	NO	NO	YES	YES	
PDG-P240	60A	Grey	-65 to 400F	850	74	160	NO	NO	YES	YES	
PDG-P440	42A	Clear	-60 to 600F	600	120	250	NO	YES	YES	YES	

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