

SOFT AROTHANE™ ARP SERIES

Soft Arothane™ - Soft ARP	ASTM Test	ARP-60A	ARP-63A	ARP-67A
Durometer (Shore hardness)	D2240	62A	64A	66A
Specific Gravity	D792	1.08	1.08	1.08
Ultimate Tensile (psi)	D412	2,900	3,100	3,500
Tensile Modulus at 100% Elongation (psi)	D412	340	410	440
Tensile Modulus at 300% Elongation (psi)	D412	590	760	850
Ultimate Elongation (%)	D412	>650	>650	>650
Mold Shrinkage (%)	-	>15%	>15%	>15%

AROTHANE™ ARP SERIES CLEAR GRADE

Arothane™ ARP	ASTM Test	ARP-75A	ARP-80A	ARP-85A	ARP-90A	ARP-93A	ARP-95A	ARP-60D	ARP-63D	ARP-68D	ARP-73D
Durometer (Shore hardness)	D2240	75A	82A	87A	92A	93A	95A	59D	64D	68D	74D
Specific Gravity	D792	1.08	1.09	1.11	1.14	1.15	1.15	1.16	1.17	1.18	1.18
Flexural Modulus (psi)	D790	3,000	3,300	4,750	8,800	9,000	11,000	17,000	24,000	30,000	67,000
Ultimate Tensile (psi)	D412	4,100	5,500	6,200	7,300	5,800	6,600	7,000	7,200	8,000	8,800
Tensile Modulus at 100% Elongation (psi)	D412	490	720	890	1,850	2,600	2,750	3,100	3,100	3,400	3,550
Tensile Modulus at 300% Elongation (psi)	D412	820	1,400	2,350	4,500	5,200	5,400	5,650	5,800	6,100	6,350
Ultimate Elongation (%)	D412	760	650	590	540	470	420	380	370	380	365
Mold Shrinkage (mm/mm)	D955	0.008-0.012	0.008-0.012	0.008-0.012	0.006-0.010	0.006-0.010	0.006-0.010	0.004-0.008	0.004-0.008	0.004-0.008	0.004-0.006

AROTHANE™ ARP SERIES B20

Arothane™ ARP-B20	ASTM Test	ARP-80A-B20	ARP-85A-B20	ARP-90A-B20	ARP-93A-B20	ARP-95A-B20	ARP-60D-B20	ARP-65D-B20	ARP-69D-B20	ARP-73D-B20
Durometer (Shore hardness)	D2240	80A	85A	90A	93A	95A	59D	63D	69D	75D
Specific Gravity	D792	1.26	1.28	1.31	1.33	1.33	1.35	1.36	1.37	1.37
Flexural Modulus (psi)	D790	4,000	5,600	8,200	9,300	13,000	20,000	55,000	190,000	290,000
Ultimate Tensile (psi)	D412	3,600	4,800	5,800	5,900	5,300	5,500	5,700	5,500	5,600
Tensile Modulus at 100% Elongation (psi)	D412	670	900	1,300	1,700	2,050	3,000	3,800	4,500	N/A
Tensile Modulus at 300% Elongation (psi)	D412	1,050	1,650	2,350	3,200	4,300	5,050	N/A	N/A	N/A
Ultimate Elongation (%)	D412	720	560	530	480	420	375	265	200	80
Mold Shrinkage (mm/mm)	D955	0.007-0.014	0.007-0.014	0.006-0.012	0.006-0.010	0.006-0.010	0.004-0.008	0.004-0.008	0.004-0.006	0.004-0.006

AROTHANE™ ARP SERIES B0

Arothane™ ARP-B40	ASTM Test	ARP-85A-B40	ARP-90A-B40	ARP-95A-B40	ARP-60D-B40	ARP-67D-B40
Durometer (Shore hardness)	D2240	85A	90A	95A	60D	67D
Specific Gravity	D792	1.52	1.57	1.59	1.59	1.61
Flexural Modulus (psi)	D790	5,050	10,600	15,100	26,000	58,000
Ultimate Tensile (psi)	D412	2,800	3,500	3,600	3,700	4,000
Tensile Modulus at 100% Elongation (psi)	D412	610	1,300	1,800	2,400	3,700
Tensile Modulus at 300% Elongation (psi)	D412	800	1,900	2,600	3,500	N/A
Ultimate Elongation (%)	D412	830	530	400	330	175
Mold Shrinkage (mm/mm)	D955	0.006-0.012	0.005-0.010	0.005-0.010	0.004-0.008	0.004-0.008

AROTHANE™ ARP-W SERIES

Arothane™ ARP-W	ASTM Test	ARP-85A-W30	ARP-85A-W40	ARP-85A-W50
Durometer (Shore hardness)	D2240	85A	85A	85A
Specific Gravity	D792	1.50	1.71	1.98
Flexural Modulus (psi)	D790	5,200	5,500	7,250
Ultimate Tensile (psi)	D412	4,900	4,700	4,600
Tensile Modulus at 100% Elongation (psi)	D412	1,000	1,000	1,000
Tensile Modulus at 300% Elongation (psi)	D412	1,900	1,700	1,600
Ultimate Elongation (%)	D412	520	570	600
Mold Shrinkage (mm/mm)	D955	0.006-0.012	0.005-0.010	0.005-0.010

AROTHANE™ ARP-W-G SERIES

Arothane™ ARP-W-G	ASTM Test	ARP-85A-W40-G	ARP-85A-W50-G	ARP-85A-W60-G
Durometer (Shore hardness)	D2240	85A	85A	85A
Specific Gravity	D792	1.71	1.98	2.4

ENGINEERING AROTHANE™ EARP SERIES

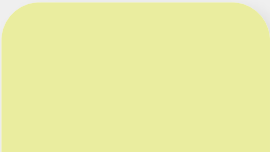
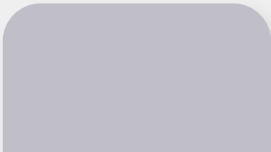
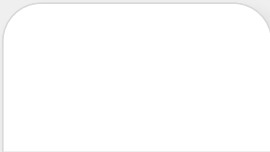
Engineering Arothane™ EARP	ASTM Test	EARP-74D	EARP-76D	EARP-78D	EARP-80D
Durometer(Shore hardness)	D2240	73D	76D	78D	80D
Specific Gravity	D792	1.14	1.15	1.15	1.16
Flexural Modulus, (psi)	D790	75,000	146,000	260,000	300,000
Ultimate Tensile**, (psi)	D412	8,100	8,100	6,200	6,900
M100(psi)	D412	3,500	4,500	6,000	6,800
M200(psi)	D412	5,500	5,700	NA	NA
Mold Shrinkage (%)	D412	270	250	175	160
Mold Shrinkage (mm/mm)	D955	0.004-0.005	0.003-0.004	0.002-0.003	0.002-0.003
Glass Transition Temperature (Tg)	DSC	38	40	58	70

Customized Service : Color-Matching

Color Chart

Unlisted colors can be customized



				
Pantone 3517C	Pantone 0131C	Pantone 7402C	Pantone 7403C	Pantone 3248C
				
Pantone 291C	Pantone 292C	Pantone 285C	Pantone 280C	Pantone 2577C
				
Pantone 2665C	Pantone 7629C	Pantone 428C	Pantone White	Pantone Black C

ALITHANE™ ALP SERIES CLEAR GRADE

Alithane™ ALP	ASTM Test	ALP-75A	ALP-80A	ALP-85A	ALP-90A	ALP-95A	ALP-60D	ALP-65D	ALP-70D
Durometer (Shore hardness)	D2240	77A	80A	86A	93A	95A	62D	67D	72D
Specific Gravity	D792	1.06	1.07	1.08	1.09	1.10	1.10	1.10	1.10
Flexural Modulus (psi)	D790	N/A	2,800	2,800	4,300	11,400	27,000	37,000	58,000
Ultimate Tensile (psi)	D412	3,400	3,900	5,000	6,900	6,800	6,600	6,200	6,000
Tensile Modulus at 100% Elongation (psi)	D412	810	1,000	1,100	1,500	2,200	2,400	3,000	3,650
Tensile Modulus at 300% Elongation (psi)	D412	1,600	2,200	3,100	5,200	5,650	5,850	6,200	N/A
Ultimate Elongation (%)	D412	560	495	460	415	330	320	305	295
Mold Shrinkage (mm/mm)	D955	0.010-0.013	0.010-0.013	0.008-0.010	0.008-0.010	0.006-0.009	0.006-0.009	0.004-0.006	0.004-0.006

ALITHANE™ ALP SERIES B20

Alithane™ ALP-B20	ASTM Test	ALP-75A-B20	ALP-80A-B20	ALP-85A-B20	ALP-90A-B20	ALP-95A-B20	ALP-60D-B20	ALP-65D-B20	ALP-70D-B20
Durometer (Shore hardness)	D2240	75A	80A	85A	90A	95A	62D	65D	71D
Specific Gravity	D792	1.21	1.23	1.23	1.26	1.27	1.28	1.28	1.29
Flexural Modulus (psi)	D790	2,900	3,650	4,100	5,000	6,100	13,600	19,500	43,000
Ultimate Tensile (psi)	D412	1,950	2,500	3,350	3,850	5,800	6,700	6,700	6,300
Tensile Modulus at 100% Elongation (psi)	D412	650	750	1,000	1,250	1,950	2,200	2,500	3,000
Tensile Modulus at 300% Elongation (psi)	D412	1,000	1,100	1,900	2,900	5,050	6,200	6,300	6,300
Ultimate Elongation (%)	D412	700	645	500	435	350	310	310	300
Mold Shrinkage (mm/mm)	D955	0.010-0.013	0.010-0.013	0.008-0.010	0.008-0.010	0.006-0.009	0.006-0.009	0.004-0.006	0.004-0.006

ALITHANE™ ALP SERIES B40

Alithane™ ALP-B40	ASTM Test	ALP-80A-B40	ALP-85A-B40	ALP-90A-B40	ALP-95A-B40	ALP-65D-B40	ALP-70D-B40
Durometer (Shore hardness)	D2240	80A	83A	92A	97A	66D	70D
Specific Gravity	D792	1.49	1.50	1.52	1.54	1.54	1.54
Flexural Modulus (psi)	D790	3,300	4,000	4,600	6,400	19,000	30,000
Ultimate Tensile (psi)	D412	1,100	1,300	3,200	4,200	4,600	4,400
Tensile Modulus at 100% Elongation (psi)	D412	600	800	1,300	2,000	2,700	3,000
Tensile Modulus at 300% Elongation (psi)	D412	700	950	2,100	4,200	N/A	N/A
Ultimate Elongation (%)	D412	900	700	500	300	270	200
Mold Shrinkage (mm/mm)	D955	0.010-0.013	0.010-0.013	0.008-0.010	0.008-0.010	0.006-0.009	0.006-0.009

DURATHANE™ ALC SERIES CLEAR GRADE

Durathane™ ALC	ASTM Test	ALC-75A	ALC-80A	ALC-85A	ALC-90A	ALC-95A	ALC-60D	ALC-65D	ALC-70D
Durometer (Shore hardness)	D2240	75A	80A	86A	90A	95A	60D	65D	70D
Specific Gravity	D792	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.15
Flexural Modulus (psi)	D790	1,800	1,850	1,900	3,100	7,600	11,000	44,000	92,000
Ultimate Tensile (psi)	D412	3,500	4,000	4,100	4,400	4,700	5,200	5,500	6,000
Tensile Modulus at 100% Elongation (psi)	D412	440	610	780	1,050	1,500	1,900	3,000	3,800
Tensile Modulus at 300% Elongation (psi)	D412	920	1,450	2,000	2,900	3,900	4,600	5,200	N/A
Ultimate Elongation (%)	D412	580	490	450	395	350	320	310	290
Mold Shrinkage (mm/mm)	D955	0.025-0.028	0.018-0.020	0.013-0.016	0.008-0.009	0.007-0.008	0.006-0.007	0.003-0.004	0.003-0.004

DURATHANE™ ALC SERIES B20

Durathane™ ALC-B20	ASTM Test	ALC-75A-B20	ALC-80A-B20	ALC-85A-B20	ALC-90A-B20	ALC-95A-B20	ALC-60D-B20	ALC-65D-B20
Durometer (Shore hardness)	D2240	75A	80A	85A	90A	95A	60D	65D
Specific Gravity	D792	1.33	1.33	1.33	1.33	1.33	1.33	1.33
Flexural Modulus (psi)	D790	2,150	2,700	2,700	4,100	10,600	20,500	41,500
Ultimate Tensile (psi)	D412	2,700	3,200	4,200	4,000	4,000	4,350	4,600
Tensile Modulus at 100% Elongation (psi)	D412	350	500	700	910	1,600	2,000	2,500
Tensile Modulus at 300% Elongation (psi)	D412	500	750	1,500	1,800	3,400	3,600	4,000
Ultimate Elongation (%)	D412	800	650	500	450	360	350	320
Mold Shrinkage (mm/mm)	D955	0.020-0.025	0.013-0.014	0.013-0.014	0.011-0.014	0.009-0.010	0.007-0.009	0.006-0.008

DURATHANE™ ALC SERIES B30

Durathane™ ALC-B30	ASTM Test	ALC-90A-B30	ALC-93A-B30	ALC-95A-B30
Durometer (Shore hardness)	D2240	90A	92A	94A
Specific Gravity	D792	1.45	1.45	1.45
Flexural Modulus (psi)	D790	3,550	6,000	9,000
Ultimate Tensile (psi)	D412	3,300	4,000	4,200
Tensile Modulus at 100% Elongation (psi)	D412	910	1,200	1,400
Tensile Modulus at 300% Elongation (psi)	D412	1,600	3,000	3,400
Ultimate Elongation (%)	D412	500	380	350
Mold Shrinkage (mm/mm)	D955	0.010-0.011	0.010-0.011	0.009-0.010

DURATHANE™ ALC SERIES B40

Durathane™ ALC-B40	ASTM Test	ALC-80A-B40	ALC-85A-B40	ALC-90A-B40	ALC-95A-B40	ALC-65D-B40
Durometer (Shore hardness)	D2240	80A	85A	90A	95A	65D
Specific Gravity	D792	1.58	1.58	1.58	1.58	1.58
Flexural Modulus (psi)	D790	2,550	3,100	4,500	15,000	50,500
Ultimate Tensile (psi)	D412	2,000	2,700	3,300	3,400	3,700
Tensile Modulus at 100% Elongation (psi)	D412	460	750	1,000	1,700	2,500
Tensile Modulus at 300% Elongation (psi)	D412	580	1,000	1,700	2,400	3,550
Ultimate Elongation (%)	D412	770	570	450	400	310
Mold Shrinkage (mm/mm)	D955	0.012-0.013	0.009-0.010	0.009-0.010	0.009-0.010	0.009-0.010

Single lumen tubes
5-9fr

