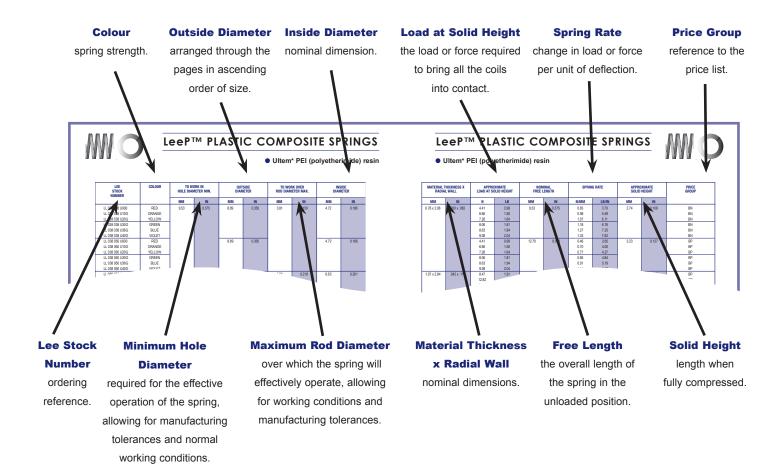
### LeeP™ PLASTIC COMPOSITE SPRINGS

## Guide to using tables



#### **ADDITIONAL INFORMATION**

- LeeP™ plastic composite compression springs combine the strength of metal with the special attributes of high performance engineered thermoplastics.
- 2 Manufactured in Ultem\* PEI (polyetherimide) resin. Different formulations are designed to meet or exceed performance criteria.
- Benefits include:
  - · Unique patent pending designs that maximise spring rates and cycle life, while minimizing solid height
  - · High strength to weight ratios that optimise performance while reducing mass
  - Excellent stability of physical and mechanical properties at elevated temperatures up to 170°C (340°F)
  - High corrosion resistance and compatibility with many chemicals including strong acids, weak bases, aromatics, and ketones
  - Non-magnetic. Does not interfere with imaging and other ferro-sensitive technologies
  - · Dielectric insulation. Suitable for non-conductive applications
  - Inert, non-contaminating material protects product purity
  - · Low flammability and toxicity ensure environmental safety
  - · Recyclable and compliant with global regulations including RoHS and REACH
- 4 LeeP™ plastic composite springs are available in a variety of standard sizes and six colour coded strengths: red, orange, yellow, green, blue and violet, the strongest.
- 6 Custom designs to meet precise performance requirements are available.

\*Ultem resin is produced by SABIC Innovative Plastics, a leader in engineered thermoplastic material solutions.



# LeeP™ PLASTIC COMPOSITE SPRINGS

### Ultem\* PEI (polyetherimide) resin

LEE Stock Number	COLOUR	TO WORK IN Hole Diameter Min.			OUTSIDE DIAMETER		TO WORK OVER ROD DIAMETER MAX.		INSIDE Diameter	
		ММ	IN	ММ	IN	ММ	IN	ММ	IN	
LL 038 038 U000	RED	9.53	0.375	8.89	0.350	3.81	0.150	4.72	0.186	
LL 038 038 U10G	ORANGE									
LL 038 038 U20G	YELLOW									
LL 038 038 U30G	GREEN	1								
LL 038 038 U36G	BLUE									
LL 038 038 U40G	VIOLET									
LL 038 050 U000	RED			8.89	0.350			4.72	0.186	
LL 038 050 U10G	ORANGE									
LL 038 050 U20G	YELLOW									
LL 038 050 U30G	GREEN									
LL 038 050 U36G	BLUE									
LL 038 050 U40G	VIOLET									
LL 050 050 U000	RED	12.70	0.500	12.32	0.485	5.54	0.218	6.63	0.261	
LL 050 050 U10G	ORANGE									
LL 050 050 U20G	YELLOW									
LL 050 050 U30G	GREEN									
LL 050 050 U36G	BLUE									
LL 050 050 U40G	VIOLET									
LL 050 075 U000	RED			11.94	0.470			6.25	0.246	
LL 050 075 U10G	ORANGE									
LL 050 075 U20G	YELLOW									
LL 050 075 U30G	GREEN									
LL 050 075 U36G	BLUE									
LL 050 075 U40G	VIOLET									
LL 075 075 U000	RED	19.05	0.750	18.29	0.720	8.71	0.343	9.55	0.376	
LL 075 075 U10G	ORANGE									
LL 075 075 U20G	YELLOW									
LL 075 075 U30G	GREEN									
LL 075 075 U36G	BLUE									
LL 075 075 U40G	VIOLET									
LL 075 100 U000	RED			18.29	0.720			9.55	0.376	
LL 075 100 U10G	ORANGE									
LL 075 100 U20G	YELLOW									
LL 075 100 U30G	GREEN									
LL 075 100 U36G	BLUE									
LL 075 100 U40G	VIOLET	27.10	1 222	2121						
LL 100 100 U000	RED	25.40	1.000	24.51	0.965	11.91	0.469	12.83	0.505	
LL 100 100 U10G	ORANGE									
LL 100 100 U20G	YELLOW									
LL 100 100 U30G	GREEN									
LL 100 100 U36G	BLUE									
LL 100 100 U40G	VIOLET									
LL 100 125 U000	RED			24.51	0.965			12.83	0.505	
LL 100 125 U10G	ORANGE									
LL 100 125 U20G	YELLOW									
LL 100 125 U30G	GREEN									
LL 100 125 U36G	BLUE									
LL 100 125 U40G	VIOLET			I						

<sup>\*</sup>Ultem resin is produced by SABIC Innovative Plastics, a leader in engineered thermoplastic material solutions

# LeeP™ PLASTIC COMPOSITE SPRINGS



### Ultem\* PEI (polyetherimide) resin

MATERIAL THICKNESS X RADIAL WALL		APPROXIMATE Load at solid height		NOMINAL FREE LENGTH		SPRING RATE		APPROXIMATE Solid Height		PRICE Group
ММ	IN	N	LB	ММ	IN	N/MM	LB/IN	ММ	IN	
0.76 x 2.08	.030 x .082	4.41	0.99	9.53	0.375	0.65	3.70	2.74	0.108	BN
		6.66	1.50			0.98	5.59			BN
		7.28	1.64			1.07	6.11			BN
		8.06	1.81			1.18	6.76			BN
		8.63	1.94			1.27	7.25			BN
		9.08	2.04			1.33	7.62		2 /2-	BN
		4.41	0.99	12.70	0.500	0.46	2.65	3.23	0.127	BP
		6.66	1.50			0.70	4.00			BP
		7.28	1.64 1.81			0.77 0.85	4.37 4.84			BP BP
		8.06 8.63	1.01			0.00	5.19			BP
		9.08	2.04			0.96	5.19			BP
1.07 x 2.84	.042 x .112	8.47	1.91	12.70	0.500	0.95	5.40	3.76	0.148	BP BP
1.07 X 2.04	.042 X .112	12.82	2.88	12.70	0.500	1.43	8.16	0.70	0.140	BP
		14.00	3.15			1.56	8.91			BP
		15.50	3.48			1.73	9.87			BP
		16.61	3.73			1.85	10.57			BP
		17.46	3.93			1.95	11.12			BP
		8.83	1.99	19.05	0.750	0.62	3.56	4.90	0.193	BS
		13.35	3.00			0.94	5.38			BS
		14.58	3.28			1.03	5.88			BS
		16.15	3.63			1.14	6.50			BS
		17.30	3.89			1.22	6.97			BS
		18.19	4.09			1.28	7.33			BS
1.57 x 4.37	.062 x .172	19.31	4.34	19.05	0.750	1.43	8.18	5.61	0.221	BS
		29.19	6.56			2.17	12.37			BS
		31.88	7.17			2.37	13.51			BS
		35.30	7.94			2.62	14.96			BS
		37.82 39.77	8.50 8.94			2.81 2.95	16.03 16.85			BS BS
		19.31	4.34	25.40	1.000	1.02	5.85	6.58	0.259	BU
		29.19	6.56	25.40	1.000	1.55	8.84	0.56	0.239	BU
		31.88	7.17			1.69	9.65			BU
		35.30	7.94			1.87	10.69			BU
		37.82	8.50			2.01	11.45			BU
		39.77	8.94			2.11	12.04			BU
2.16 x 5.84	.085 x .230	36.18	8.13	25.40	1.000	2.04	11.64	7.70	0.303	BU
		54.70	12.30			3.08	17.60			BU
		59.74	13.43			3.37	19.23			BU
		66.15	14.87			3.73	21.28			BU
		70.88	15.93			3.99	22.81			BU
		74.53	16.76			4.20	23.98			BU
		36.18	8.13	31.75	1.250	1.57	8.95	8.71	0.343	BV
		54.70	12.30			2.37	13.53			BV
		59.74	13.43			2.59	14.77			BV
		66.15 70.88	14.87			2.87	16.36			BV BV
		70.88 74.53	15.93 16.76			3.07 3.23	17.53 18.43			BV BV
		14.00	10.70			ა.∠ა	10.43			۷۵

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