



Part Number Notes

- Through Hole Terminals
- Copper Plated Steel (CP) Wire
- 100% Tin (Sn) Plated
- Surface Mount Terminals
- Phosphor Bronze Alloy
- 100% Tin (Sn) Plated
- BS-Matching Bobbin Sleeve
- BC-Matching Bobbin Cover
- 2-Part Composite Bobbins
- BA-A Portion of a 2-part Bobbin
- BB-B Portion of a 2-part Bobbin
- BC-Possible Matching Bobbin Cover
- VDE-Complete Bobbin Assembly
- Meets VDE insulation requirements
- Metric vs English Lamination Bobbins
- Some sizes are interchangeable, but tolerance over-lap must be evaluated.

Material Type	Mat'l Code	Mfg	Mfg Web Site	Trade Name	UL Card No.	UL Flameability	System Class **	RoHS Compliant	Halogen Free
THERMOSET									
Phenolic	PH	Sumitomo	www.sumitomo-chem.co.jp	PM-9630	E41429	UL94-VO	N (200°C)	Yes	No
Phenolic	PH2	Sumitomo	www.sumitomo-chem.co.jp	PM-9820	E41429	UL94-VO	N (200°C)	Yes	No
Phenolic	PH3	Chang Chun	www.ccp.com.tw	T357 / T373J / T375J	E59481	UL94-VO	F (155°C)	Yes	No
Phenolic	PH4	Hitachi	www.hitachi.us	CP-J-8700	E42956	UL94-VO	F (155°C)	Yes	No
Diallyl Phthalate	DAP	Synress-Amico	www.electricity-tool.com	5562	E48036	UL94-VO	F (155°C)	Yes	No
Diallyl Phthalate	DAP2	Cosmic	www.cosmic.vcar.com	D72	E64213	UL94-VO	F (155°C)	Yes	No
Diallyl Phthalate	DAP3	Sumitomo	www.sumitomo-chem.co.jp	52-70-70	E123472	UL94-VO	F (155°C)	Yes	No
Diallyl Phthalate	DAP4	Wah Hong	www.wahhong.com	WH-9100	E150608	UL94-VO	B (130°C)	Yes	No
THERMOPLASTICS									
Glass Filled Nylon	GFN	DuPont	www.dupont.com	FR50	E41938	UL94-VO	F (155°C)	Yes	No
Glass Filled Nylon	GFN1	DuPont	www.dupont.com	HTNFR52630NH	E41938	UL94-VO	F (155°C)	Yes	Yes
Glass Filled Nylon	GFN2	DuPont	www.dupont.com	70G33L	E41938	UL94-HB	F (155°C)	Yes	No
Glass Filled Nylon	GFN3	DuPont	www.dupont.com	132F/101L (Zytel)	E41938	UL94-V2	B (130°C)	Yes	No
Glass Filled Nylon	GFN4	RTP	www.rtpcompany.com	RTP205FR	E84658	UL94-VO	F (155°C)	Yes	No
Glass Filled Nylon	GFN5	DSM Co.	www.dsm.com	TE250F8 (Stanyl)	E172082	UL94-VO	B (130°C)	Yes	No
Glass Filled Nylon	GFN7	Ginar Tech	www.ginar.com	AN4720SN	E154352	UL94-HB	B (130°C)	Yes	No
Glass Filled Nylon	GFN8	Assend	www.ascendmaterials.com	Vdyne 909	E70062	UL94-VO	F (155°C)	Yes	No
Polyethylene	PET	DuPont	www.dupont.com	FR530 (Rynite)	E41938	UL94-VO	N (200°C)	Yes	No
Polyethylene	PET2	DuPont	www.dupont.com	RE19041 (Rynite)	E41938	UL94-VO	N (200°C)	Yes	Yes
Poly Butylene	PBT	Chang Chun	www.ccp.com.tw	4130	E59481	UL94-VO	B (130°C)	Yes	No
Polyphenylene	PPS	Phillips	www.phillips.com	R-4 (Ryton)	E54700	UL94-VO	F (155°C)	Yes	No
Polyphenylene	PPS2	Poly Plastics	polyplasticproduct.com	1140	E109088	UL94-VO	B (130°C)	Yes	No
Liquid Crystal	LCP	Sumitomo	www.sumitomo-chem.co.jp	E4008	E54705	UL94-VO	F (155°C)	Yes	Yes
Liquid Crystal	LCP2	Ticona	www.ticona.com	6130L (Zenite)	E344082	UL94-VO	N (200°C)	Yes	Yes
Liquid Crystal	LCP3	Nippon	www.negamerica.com	HM402	E91944	UL94-VO	F (155°C)	Yes	Yes

* Not all products are available in all materials. Material lots are traceable to the plastic manufacturer. Percent of Re-Grind less than plastic manufacturer's recommendations. Material specifications available at www.lodestonepacific.com/reach
 ** Insulation System Class Temperature is for use as mechanical support. Review specific insulation systems to determine if the material is suitable as a ground insulation or as mechanical support at a higher temperature class.

UL94 Rating	Flammability Specifications
VO	Will support combustion for up to 10 seconds and self extinguishes when tested under specific conditions.
V1 & V2	Will support combustion for up to 30 seconds and self extinguishes when tested under specific conditions. V2, dripping melted material allowed.
V5	Will support combustion for up to 60 seconds after 5 test burnings of 5 seconds each and self extinguishes when tested under specific conditions.
HB	Will support combustion and may not self extinguish when tested under specific conditions.

Core Shape Evaluation	ER	RM	EP	EFD	EPC	PQ	EE/EF	US LAM	MM LAM	EER	ETD
Magnetic Shielding	Good	Good	Great	Fair	Fair	Fair	Poor	Poor	Poor	Poor	Poor
Heat Dissipation	Fair	Poor	Poor	Good	Good	Good	Great	Great	Great	Great	Great
Winding Flexibility	Good	Good	Good	Good	Good	Good	Great	Great	Great	Great	Great
SMD or Through Hole	Both	Both	Both	Both	Both	TH	Both	TH	TH	TH	TH
Winding Cost	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Low	Low	Low	Low	Low
Relative Bobbin Cost	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Low	Low	Low	Low	Moderate
Ease in Gapping	Moderate	Moderate	Difficult	Moderate	Moderate	Moderate	Easy	Easy	Easy	Easy	Easy
Typical Applications											
Linear Transformers	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Yes	Yes	Yes	Possible	Possible
Communications/RF	Yes	Yes	Yes	Possible	Possible	Possible	Possible	Unlikely	Unlikely	Yes	Yes
Switch Mode Power	Possible	Possible	Unlikely	Yes	Yes	Yes	Yes	Yes	Yes	Possible	Possible
Current Transformer	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible

UL Class	Max Temperature Rating
A	105°C (221°F)
B	130°C (266°F)
F	155°C (311°F)
H	180°C (356°F)
N	200°C (392°F)
R	220°C (428°F)
S	240°C (464°F)