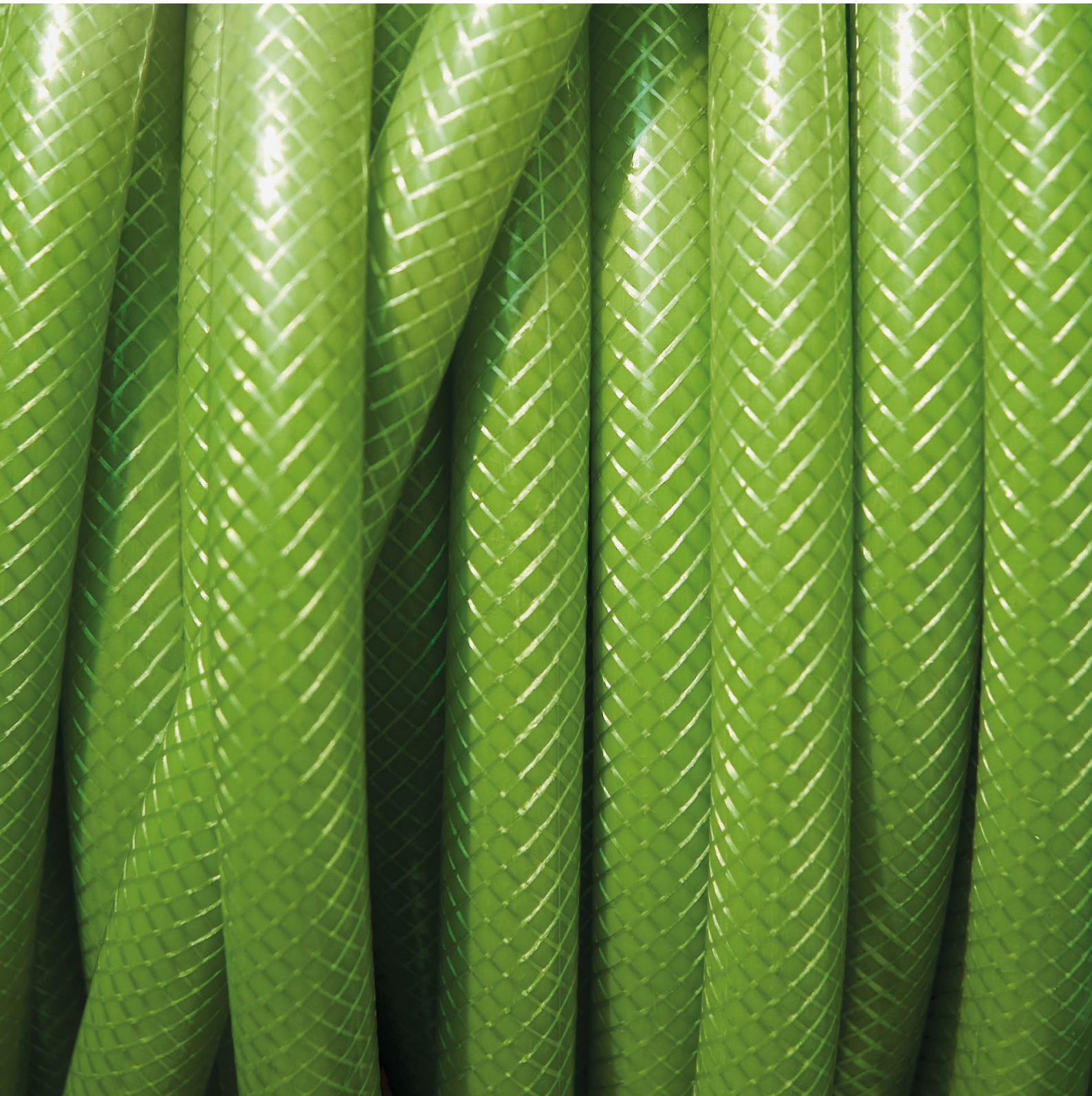


KEEP YOUR ELASTOMERS FLEXIBLE **COLORANTS FOR THERMOPLASTIC ELASTOMERS**



KEEP YOUR ELASTOMERS FLEXIBLE COLORANTS FOR THERMOPLASTIC ELASTOMERS

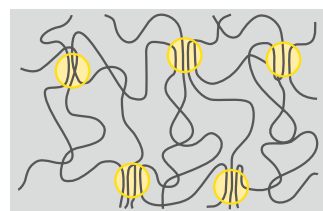
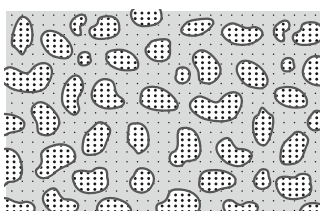
As one of the leading international manufacturers of specialty chemicals Heubach offers a wide range of pigments for thermoplastic elastomers, TPE. This material is an interesting alternative and complement to rubber.

Thermoplastic Elastomers (TPE) are plastic materials which are in structure and processing between plastics and rubber. They combine the mechanical properties of vulcanized elastomers with the processability and recyclability of thermoplastics.

At the same time, they are distinguished by an agreeable »soft touch« which make them interesting for versatile applications ranging from sports shoe soles and ski boots to films, rollers and hoses.

Due to their different constitution, TPE's are class-divided in polymer blends and block copolymers and can be classified into following groups:

GROUP	BLENDS	BLOCK COPOLYMERS
STRUCTURE	2-phase system, mixture of crosslinked or non-crosslinked elastomers in mainly PP	Segmented blocks of different flexibility and hardness
KEY TYPES	TPE-O Thermoplastic polyolefins with a non-crosslinked elastomer phase	TPE-S Styrene Block copolymer
	TPE-V Thermoplastic vulcanised rubber = polyolefin with a crosslinked elastomer phase	TPE-U Thermoplastic polyurethane elastomer
		TPE-E Thermoplastic polyester elastomer
		TPE-A Thermoplastic polyamide elastomer



For the coloration of TPE-O and TPE-V all pigments from Graphfol and PV Fast Range should be suitable with the exception of all Diarylide pigments. Due to different types within one TPE family and different shades of uncolored TPE grades pre-tests with pigments are always recommended.

COLORING RECOMMENDATIONS FOR TPE-E, TPE-S AND TPE-U

PRODUCT NAME	COLOUR INDEX	TPE-E	TPE-S	TPE-U
PV FAST® YELLOW H9G	P.Y. 214	●	■	■
PV FAST YELLOW H4G	P.Y. 151	■	■	■
PV FAST YELLOW H2G	P.Y. 120	-	■	●
PV FAST YELLOW HG 01	P.Y. 180	■	■	■
PV FAST YELLOW HG	P.Y. 180	■	■	■
PV FAST YELLOW H2GR	P.Y. 191	■	■	■
PV FAST YELLOW HGR	P.Y. 191	■	■	■
PV FAST YELLOW H3R	P.Y. 181	■	■	■
PV FAST ORANGE H4GL 01	P.O. 72	■	■	■
PV FAST ORANGE H2GL	P.O. 64	■	■	■
PV FAST ORANGE GRL	P.O. 43	●	■	■
PV FAST ORANGE 6RL	P.O. 68	■	■	■
PV FAST SCARLET 4RF	P.R. 242	■	■	■
PV FAST RED B	P.R. 149	●	■	■
PV FAST RED D3G	P.R. 254	■	■	■
PV FAST RED HB	P.R. 247	●	●	●
PV FAST RED BNP	P.R. 214	■	■	■
PV FAST RED HF4B	P.R. 187	■	■	■
PV FAST RED E3B	P.V. 19	■	■	■
PV FAST RED E5B	P.V. 19	■	■	■
PV FAST PINK E	P.R. 122	■	■	■
PV FAST PINK E01	P.R. 122	■	■	■
PV FAST VIOLET BLP	P.V. 23	●	■	●
PV FAST VIOLET RL	P.V. 23	●	■	●
PV FAST BLUE A4R	P.B. 15:1	●	■	●
PV FAST BLUE A2R	P.B. 15:1	■	■	■
PV FAST BLUE BG	P.B. 15:3	■	■	■
PV FAST GREEN GNX	P.G. 7	■	■	■
PV FAST BROWN HFR	P.Br. 25	●	■	■
PV FAST BROWN RL	P.Br. 41	■	●	■
GRAPHTOL® YELLOW 3GP	P.Y. 155	●	●	■
GRAPHTOL YELLOW H2R	P.Y. 139	■	■	■
GRAPHTOL RED HFG	P.O. 38	●	■	■
GRAPHTOL RED LG	P.R. 53:1	■	■	●
GRAPHTOL RED LC	P.R. 53:1	●	■	●
GRAPHTOL RED F3RK 70	P.R. 170	-	●	-
GRAPHTOL FIRE RED 3RLP	P.R. 48:3	■	■	■
GRAPHTOL RED HF2B	P.R. 208	●	■	●
GRAPHTOL RED F5RK	P.R. 170	-	●	-
GRAPHTOL RED P2B	P.R. 48:2	■	■	■
GRAPHTOL CARMINE HF4C	P.R. 185	●	■	■
GRAPHTOL CARMINE HF3C	P.R. 176	■	■	■
GRAPHTOL RUBINE L4B	P.R. 57:1	●	■	■
GRAPHTOL BORDEAUX HF3R	P.V. 32	●	■	■
GRAPHTOL BLACK CLN	-	■	■	■

■ Suitable

● Limited suitability

- Not suitable

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