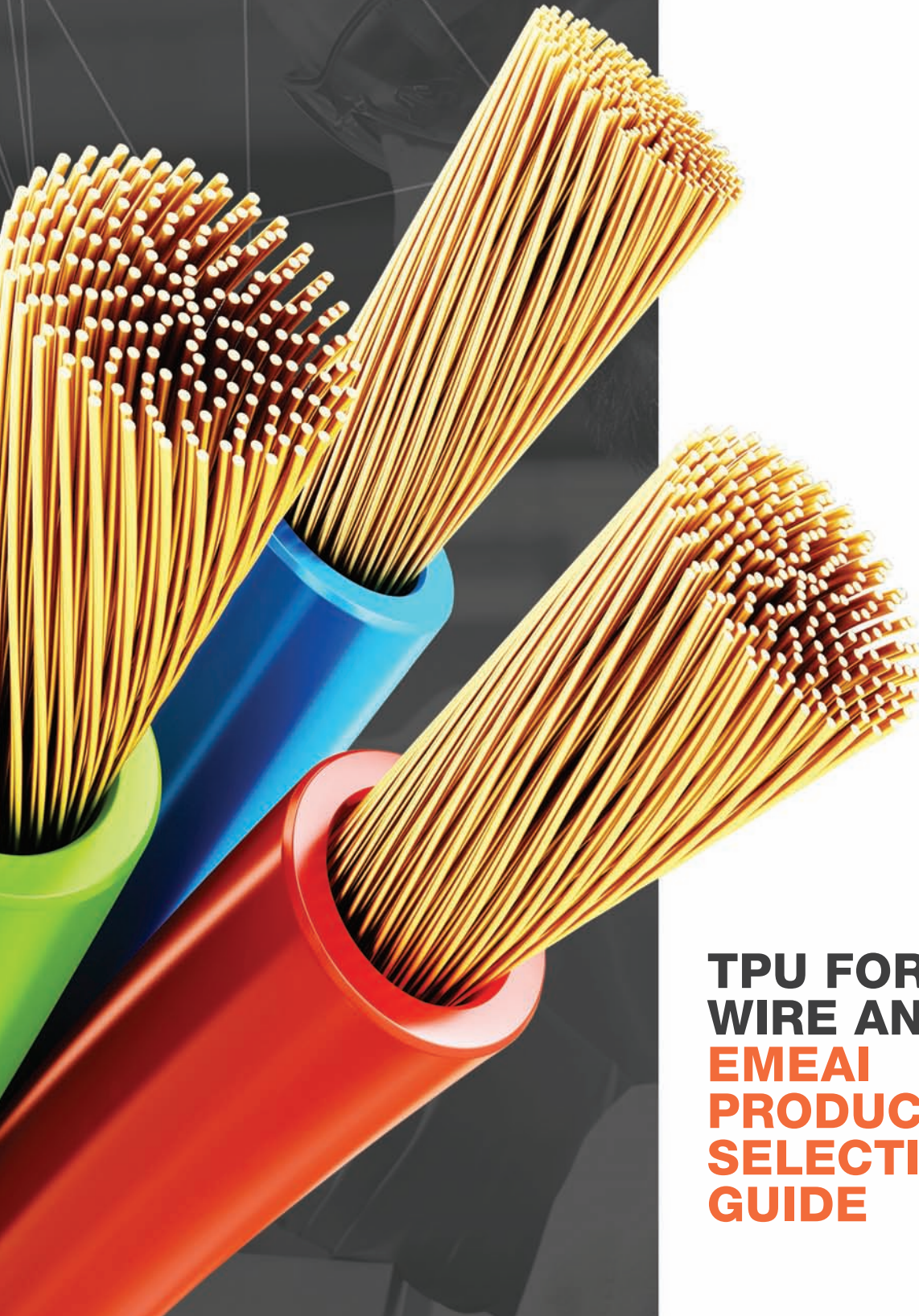


Lubrizol



**TPU FOR
WIRE AND CABLE
EMEA
PRODUCT
SELECTION
GUIDE**

LUBRIZOL
ENGINEERED
POLYMERS

**ADVANCING MATERIALS.
ELEVATING PERFORMANCE.**

TPU (THERMOPLASTIC POLYURETHANE) FOR WIRE AND CABLE

Grades	Hardness (Shore A/D) ISO 868	Key benefits	Tensile Strength (MPa) ISO 527-2/5A/500	Elongation at break ISO 527-2/5A/500	Tear Resistance kN/m ISO 34-1B	Minimum Extrusion Temperature °C	Abrasion Resistance A/B method	Main Applications
ESTANE® 58300 NAT 036	82 A	Hydrolysis resistance, Low temperature flexibility	32	670	95	190	40 (B)	Automotive and industrial cables
ESTANE® 58311 NAT 022	86 A	Hydrolysis resistance, Without UV stabilizer	40	640	55	180	35 (B)	Industrial cables
ESTANE® 58887 NAT 029	89 A	Hydrolysis resistance, Without UV stabilizer	47	570	65	190	40 (B)	Automotive, construction and geophysical cables
ESTANE® 58887 NAT 037	89 A	Hydrolysis resistance / Wax free / UV stabilized	47	570	65	190	40 (B)	Automotive, construction and geophysical cables
ESTANE® 58887 NAT 055	89 A	Hydrolysis resistance, UV stabilized	47	570	62	175	55 (B)	Automotive, construction and geophysical cables
ESTANE® 58889 NAT 055	89 A	Hydrolysis resistance / Low gloss / Low CoF	49	590	40	175	105 (B)	Matt, automation cables
ESTANE® 58212 NAT 025	93 A	Hydrolysis resistance / High hardness easy to extrude	50	500	45	180	150 (B)	Automation and transportation cables
ESTANE® ETE 70 DT3 NAT 065	70 D	Hydrolysis resistance, High modulus easy to extrude	42	355	175	220	81 (B)	Optical fibre cables
ESTANE® ZHF 85AT8 NAT 01	82 A	Halogen-free flame retardant / Glossy surface / High mechanical properties	45	530	49	205	36 (A)	Sensors and power tools
ESTANE® ZHF 85AT8 MATT 01	84 A	Halogen-free flame retardant / Matt surface / High mechanical properties	50	550	55	190	40 (A)	Automation, sensor, power tools, drag chain and robotic cables
ESTANE® ZHF 58370 NAT 01	86 A	Halogen-free flame retardant / Hydrolysis resistance / Low Smoke / Low toxicity	31	653	49	185	91 (A)	Electric vehicles (EV) charging cables
ESTANE® ZHF 58202 NAT 02	89 A	Halogen-free flame retardant / Hydrolysis resistance / Low smoke / Low toxicity	28*	600*	55	190	65 (A)	Railway cables
ESTANE® ZHF 58202H NAT 02	91 A	Halogen-free flame retardant / Hydrolysis resistance / Low Smoke / Low toxicity	20	536	76	190	100 (A)	Automation, sensor, drag chain and robotic cables
ESTANE® ZHF 90AT8 NAT 02	89 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized	28*	500*	54	190	38 (A)	Automation, sensor, drag chain and robotic cables
ESTANE® ZHF 90AT8H NAT 02	87 A	Halogen-free flame retardant / Hydrolysis resistant / UV stabilized	27	524	53	190	36 (A)	Automation, sensors, drag chain and robotic cables
ESTANE® ZHF 90AT0 NAT 055	90 A	Hydrolysis resistance / Halogen-free flame retardant / Transparency	58*	410*	70	190	24 (A)	Industrial cables
ESTANE® ZHF 90AT2 NAT 055	91 A	Halogen-free flame retardant / Hydrolysis resistance / Low smoke	24*	460*	72	190	49 (A)	Automation cables
ESTANE® 58244 NAT 032	92 A	Halogen-free flame retardant / Hydrolysis resistance / Low smoke	28*	580*	56	180	97 (B)	Automation and airplane cables
ESTANE® ZHF 58211 NAT 01	94 A	Halogen-free flame retardant / Heat & hydrolysis resistance / Low smoke/toxicity	25	381	100	195	90 (A)	Heat-resistant cables, Automotive Class C
ESTANE® ZHF 58211 NAT 02	92 A	Halogen-free flame retardant / Heat & hydrolysis resistance / Low smoke/toxicity	28	471	84	200	88 (A)	Heat-resistant cables, Automotive Class C
ESTANE® TS 92AP7 NAT 055	93 A	Long term high heat stability, Hydrolytic stability	60	375	103	200	39 (B)	Automotive and downhole cables
ESTANE® ZHF 95AT3 NAT 055	95 A	Halogen-free high flame retardant, Hydrolysis resistance	15*	370*	66	180	142 (A)	Data cables

* ISO 527-2/5A/200

LUBRIZOL GLOBAL PRESENCE

Our global presence means we have the application and development laboratories (with technical service ability) already in place, as well as worldwide production capabilities and renowned customer service. We are also a specialty producer of performance coatings and other unique products for apparel. Teaming with Lubrizol simplifies a complex global supply chain.

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