

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 resist. / Low smoke/toxicity/conductivity	31	653	49	185	91 (A)	Electric vehicles (EV) charging cables (IEC)
ESTANE® ZHF 90AT8L NAT 01	87 A	Halogen-free flame retardant / Hydrolysis resist. / UV stabilized / High mechanicals	34	511	51	190	38 (A)	Cables
ESTANE® ZHF 90AT8H NAT 02	87 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized	27	524	53	190	36 (A)	Automation, sensors, drag chain and robotic cables
ESTANE® EV 88AT2 NAT 01	88 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized	38	491	58	190	37 (A)	Electric vehicles (EV) charging cables (IEC62893)
ESTANE® ZHF 58202 NAT 02	89 A	Halogen-free flame retardant / Hydrolysis resist. / Low smoke/toxicity/conductivity	28*	632*	59	185	65 (A)	Electric vehicles (EV) charging cables (IEC)
ESTANE® EV 90AT2 NAT 01	90 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized	29	523	62	190	46 (A)	Electric vehicles (EV) charging cables (EN50620)
ESTANE® ZHF 88AT8 NAT 01	90 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized/Increased flame	22	540	56	185	88 (A)	Automation, sensors, drag chain, robotic cables and MRI cables
ESTANE® ZHF 90AM9 NAT 01	90 A	Halogen-free flame retard. / Heat & hydrolysis resist. / Low smoke/toxicity / High mech.	32	450	70	190	85 (A)	Automation, sensors, drag chain and robotic cables, UL1061 capable for small diameter cables
ESTANE® ZHF 90AT2 NAT 055	91 A	Halogen-free flame retardant / Hydrolysis resist. / UV stabilized / Low smoke	22*	459*	72	195	49 (A)	Automation cables - FT-2 small diameter cables
ESTANE® ZHF 92AT8 NAT 01	92 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized	15	478	67	185	118 (A)	Automation, sensors, drag chain and robotic cables, UL1061 capable for small diameter cables
ESTANE® 58244 NAT 055	92 A	Halogen-free flame retardant / Hydrolysis resistance / Low smoke	28*	580*	56	180	97 (B)	Automation and airplane cables
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 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 95AP7 NAT 01	95 A	Halogen-free flame retardant / Hydrolysis resistance / UV stabilized	20	320	90	185	123 (A)	Cable bundle capability

* 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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EU-WC-012020



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