

DSM 5.1.2

TECAFORM® AH ELS - Black**General:**

TECAFORM® AH ELS is a semi-crystalline, electrically conductive polyoxymethylene copolymer (POM-C) grade reinforced with conductive carbon black.

Exhibits high strength & toughness, good sliding friction & wear properties, resistance to UV, weathering, hot water & bases, good machinability and good chemical resistance to solvents.

Applications include chemical technology, mechanical engineering, conveyor technology, electrical engineering and protection of electronics.

Chemical Designation:	POM-C (Polyacetal (Copolymer))
Colour:	Black opaque
Density:	1.41 g/cm ³
Fillers:	Conductive carbon black

PROPERTY	Parameter	VALUE
Modulus of elasticity:	1mm/min	1800 MPa
Tensile strength:	50mm/min	42 MPa
Tensile strength at yield:	50mm/min	42 MPa
Elongation at yield:	50mm/min	11%
Modulus of elasticity:	2mm/min, 10N	1500 MPa
Compression strength:	1% / 2% / 5% - 5mm/min 10N	16/25/45 MPa
Compression modulus:	5mm/min, 10N	1500 MPa
Impact strength (Charpy):	Max. 7,5J	74 KJ/m²
Ball indentation hardness:		96 MPa
Glass transition temperature:		-60 °C
Melting temperature		169 °C
Service temperature	Long term	100 °C
Thermal conductivity		0.46 W(K*m)
Surface resistivity	Conductive rubber, 23°C 12% r.h.	10² - 10⁴ Ω
Volume resistivity	Conductive rubber, 23°C 12% r.h.	10³ - 10⁵ Ω*cm
Water absorption	24h / 96h (23°C)	0.05 / 0.2 %

ASM (DEK) Applications:

Please email details of your request to engineering_enquiries@asmpt.com

Issue	01	02	03	04	05	06	07	08	09
DCR	N/A								