

SPECIAL MATERIALS

Problem solution by admixing additives to enhance material characteristics

(UV - stability, AST-antistatic, electro conductive, self-extinguishable, heat distortion temperature resistance, sliding properties, wear resistance, mechanical properties, antibacterial properties, chemical resistance, welding, toughness, etc.)

KOTERM SURPRICE (PE-HMW + ADDITIVES)

Natural, green, black



- Average Molecular weight of $>9.0 \times 10^6$ g/mol.
- Excellent wear resistance
- Excellent abrasion resistance

KOTERM UV (PE-UHMW, PE HMW)

- UV stability

KOTERM ULA (PE-UHMW + ADDITIVES)

Black



- Molecular weight of $>9.0 \times 10^6$ g/mol.
- Increased wear resistance
typical application in paper industry

KOTERM CER (PE-UHMW + ADDITIVES)

Yellowish-green



- Molecular weight of $>9.0 \times 10^6$ g/mol.
increased wear resistance
- Typical application in paper industry

KOTERM AST (PE-UHMW + ADDITIVES)

Black



- Antistatic
- Surface resistance standard
DIN VDE 0303 106-109 Ω

KOTERM ELC (PE-UHMW)

Black



- Electrically conductive
- Surface resistance $<10^6 \Omega$

KOTERM FREX (PE-UHMW + ADDITIVES)

Dark grey



- Self-extinguishable according to
standard UL 94 (class V0)
- Antistatic

KOTERM SURPRICE (PE-HMW + ADDITIVES)

- Improved sliding characteristics
- Special material for synthetic ice floor

KOTERM OIL FILLED (PE-UHMW + ADDITIVES)

Natural, green, black



- Improved sliding characteristics

KOTERM DS (PE-UHMW + ADDITIVES)

Black



- Improved sliding properties in dry operation
- Increased wear resistance

KOTERM FR

- Self-extinguishable
- According to standard UL94 (class V0,V1,V2)

KOTERM MOS2 (PE-UHMW + ADDITIVES)

Black



- Improved sliding characteristics
- Improved wear resistance

KOTERM SUPERHOT (PE-UHMW + ADDITIVES)

White



- Enhanced heat distortion resistance

KOTERM ANTIBACTERIAL

- Antibacterial properties
- Biomedical applications

KOTERM CERAMEX (PE-UHMW + ADDITIVES)

Ivory



- Special material for paper industry
- Superb wear resistance

Material designation	KOTERM PE 1000	KOTERM PE 9000	KOTERM ULA, CER	KOTERM UV	KOTERM AST	KOTERM PE 1000 MoS ₂	KOTERM Oil filled	KOTERM ELC	KOTERM DS Super	KOTERM SuperHot	KOTERM FREX
Colour	natural, green, black, other*	natural, green, black, other*	black, yellow-green	natural, green, black, other*	black, other*	black		black		white	dark grey
DIN designation	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW	PE-UHMW
Abrasion resistance	good	excellent	excellent	good	good	good	good	good	good	good	good
Sliding properties	good	good	good	good	good	good	excellent	good	excellent	good	good
Mechanical load properties	moderate	moderate	good	moderate	moderate	good	moderate	moderate	good	moderate	moderate
Isolation	excellent	excellent	good	good	—	fair	good	—	excellent	good	—
Antistatic efficiency	—	—	—	—	excellent	fair	—	excellent (10 ⁶ Ω)	—	—	excellent
Flame retardancy	—	—	—	—	—	—	—	—	—	—	excellent
UV resistance	fair	—	fair	excellent	excellent	suitable	fair	excellent	fair	fair	excellent
Chemical resistance	good	good	good	good	good	good	good	good	good	excellent	good
Temperature range (°C)											
Min	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200	-200
Max	+80	+80	+80	+80	+80	+80	+80	+80	+80	+100	+80
Short-term exposure	+90	+90	+90	+90	+90	+90	+90	+90	+90	+135	+90
Psychologically safe	yes	yes	yes	no	yes	no	yes	no		yes	no

* other colours on request



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