

PTFE Off-set additive

MODIPER® A1100/A1401

1 Feature of MODIPER® A1100 and A1401

- **MODIPER® A1100** and **A1401** are innovative type graft copolymers containing Polyethylene, which can impart lubricity to engineering plastics, and a branch chain which has good compatibility with base resins.
- **MODIPER® A1100** and **A1401** are environmental friendly because no halogen compounds including PFAS are contained and can replace PTFE with smaller loading.

2 Product Information

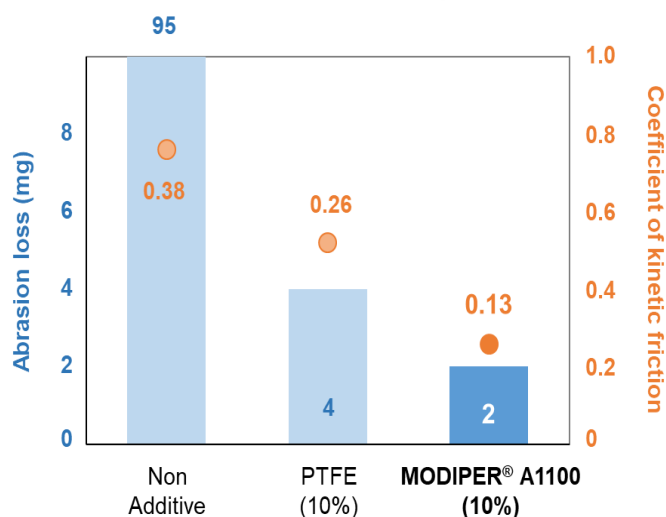
Product name	Appearance		Polymer structure	MFR ¹⁾ (g/10min)	1% weight loss temp ²⁾ (°C/F)	Melting point ³⁾ (°C/F)
	Color	Shape				
MODIPER® A1100	White	Pellet	LDPE-g-PS	1.2	337/639	111/232
MODIPER® A1401	Slightly yellow	Pellet	LDPE-g-AS	0.9	306/583	110/230

- 1) LDPE: Low density polyethylene, PS: Polystyrene, AS: Poly(Acrylonitrile/Styrene)
- 2) MFR: 230°C(446°F), 2.16kgf
- 3) TGA (Thermo Gravimetric Analysis): Rate of temperature rise: 10°C/min in N₂
- 4) DSC (Differential Scanning Calorimetry): Rate of temperature rise: 10°C/min in N₂

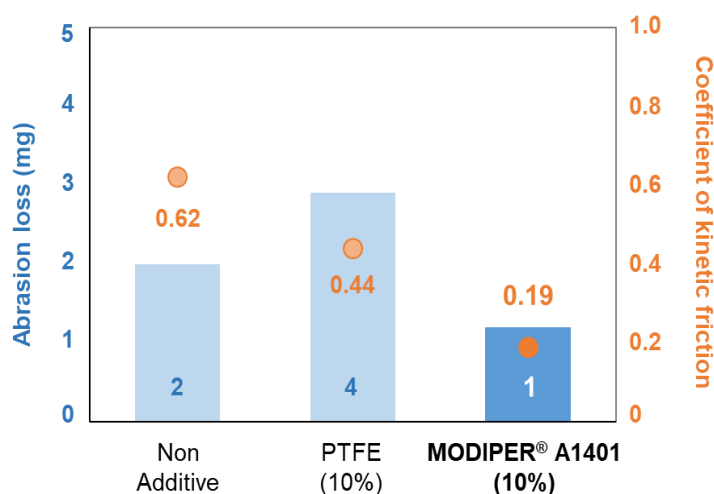
3 Benefits by MODIPER® A1100 and A1401

Tribological properties of plastic parts, made up of POM, PA, PC, etc, can be improved with 5-10% of **MODIPER® A1100** and **A1401**. Because of the differences in their loading and density, lighter compounds can be also produced compared to PTFE.

① Evaluation of POM compounds



② Evaluation of PA66 compounds



*MODIPER is a registered trademark of NOF CORPORATION in JAPAN, U.S.A. and some other countries.

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