

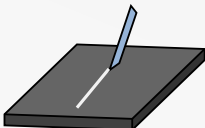
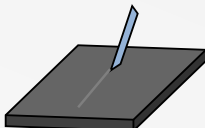


# FINE ORGANICS



## FINE Antiscratching additives Protecting plastic surfaces

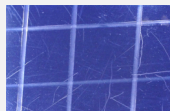

Surface appearance is one of the most critical factors related to the customer appeal for all finished products. Plastic materials are susceptible to surface defects in the presence of a severe external force, which typically can result in an undesired deformation termed as a 'scratch'. The scratches can remarkably deteriorate surface quality of the final moulded products and can result in 'customer rejection'. Using a suitable additive can be the most convenient and appropriate way to enhance the visual appeal of your final product.

 Plastic surface	 Protected plastic surface
<b>Without Antiscratching additive</b>	<b>With Antiscratching additive</b>
Vulnerable surface	Protected surface
High visibility of surface scratch	Minimized visibility of surface scratch

*Schematic: Antiscratching additive effectively decreases surface friction by forming a uniform protective additive layer on the polymer surface. Thereby, minimizes the scratch visibility resulting in high-quality surface texture.*

An antiscratching additive is incorporated during the melt-compounding step, which migrates on the polymer surface and forms a uniform additive layer on the polymer surface (at an optimum dosage level). The equilibrated additive layer controls the excess surface friction and thus, effectively mitigates the scratching process. FINE Antiscratching additives are specially formulated/identified oleochemical derivatives, which assure excellent surface protection for various base polymers with sustainability.

Visual observations of improved surface quality in the presence of FINE antiscratching additive can be confirmed through:

Benefits	Property	ABS based moulded samples	
		Control	with Finalux ASR (1.5%)
Significantly reduced scratch width	Scratch width, mm	0.248	Minimum
Minimized scratch visibility	Optical images		
Improved/maintained surface gloss	Gloss @ 20 deg	85	91
Enhanced visual appeal	Visual observations	Severe scratching observed	No visibility of scratches

You can attain benefits from FINE antiscratching additives in terms of:

- Scratch resistance: End-product surface protection
- Improved surface gloss: Minimized surface defects
- Thermal stability
- Sustainability (vegetable-oil based raw materials)

#### Product recommendation – Brief overview

FINE Additive	Applications
Finawax ASP	PP specialty moulding/Automotive
Finawax OPA	PP specialty moulding/Automotive
Finalux ASR	Polyamides & Styrene based polymers/blends Sheets/films and moulding
Finalux ACS	Acrylic based polymers – PMMA & Biopolymers (PLA/PBAT) Sheets/films and moulding
Finalux PET 350M	PET/PBT/PC Sheets/films and moulding
Finalux PET 450	PET/PBT/PC Sheets/films and moulding

Explore more about the FINE Antiscratching additives of your choice for Your Speciality Applications/Compounds/Masterbatches to maximize benefits.

Select a befitting additive for your formulations with us at: [info@fineorganics.com](mailto:info@fineorganics.com).

For Further technical assistance, Please contact our Technical Services Department | Email : [info@fineorganics.com](mailto:info@fineorganics.com)

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