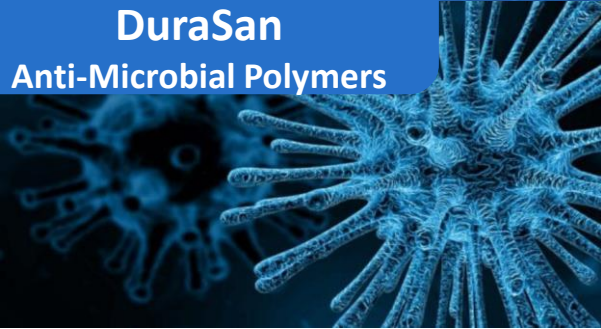


DuraSan

Anti-Microbial Polymers



- *Anti-Microbial Thermoplastics*
- *Masterbatch and Compounds*
- *Advanced Silver Ion Technology*

DuraSan: Anti-Microbial Polymer Additive

We are all now more aware than ever of the need to sanitise our hands and those items we touch and use everyday. Duromer Products have been working on a range of anti-microbial concentrates and compounds for use in “high touch” injection moulded and extruded articles.

DuraSan utilises the latest in silver ion technology to provide cost effective anti-microbial resistance across a wide range of polymers and compounds. The resulting anti-microbial materials are suitable for use in injection moulding and extrusion of everyday appliances and handling equipment.

Compounds and masterbatches with DuraSan display almost no change in physical properties, colour or transparency compared to the original polymer or compound. This means you have maximum scope in terms of your choice of colour and level of transparency.

Thermoplastic compounds and masterbatches that include DuraSan technology are also designed to provide you with the most cost effective solution while optimising the even dispersion of anti-microbial additives within your moulded article.

Speak to your Duromer representative about including DuraSan technology in your existing compound or masterbatch. We can develop a “ground up” polymer solution based on your specific requirements.



Applications for DuraSan

DuraSan can be used in all applications where FDA, NSF & EPA approvals are required. Suggested applications include: crates and pallets, seating, desks, food preparation equipment, white goods and appliances, steering wheels, cosmetics & medical related equipment.

Polymer Systems include, but are not limited to: PP, PE, Nylon (6, 66, 666, 12, PPA), ABS, ASA, HIPS, GIPS, PBT, PC, PMMA, POM, PolyKetone etc

<i>Escherichia coli</i>	Number of living bacteria		Antimicrobial activity value against BLANK	Reduction %
	At beginning	After 24 hours		
① BLANK	1.2×10^5	2.0×10^7	-----	-----
② DuraSan 0.2%	1.2×10^5	$< 1 \times 10^2$	> 5.3	> 99.999
③ DuraSan 0.4%	1.2×10^5	$< 1 \times 10^2$	> 5.3	> 99.999
④ Competitor 0.3%	1.2×10^5	2.3×10^3	3.9	99.9
⑤ Competitor 0.5%	1.2×10^5	3.6×10^3	3.7	99.9
Control (Film only)	1.2×10^5	1.3×10^7		



Test method:
JIS Z 2801/ ISO 22196