

ANTISTAT FOR PP INJECTION MOULDING APPLICATIONS



Your daily challenge

Antistat efficiency

Need for food contact approval

DIMODAN® HS - an efficient and safe food grade additive

DIMODAN® HS is a reliable antistat for most PP injection moulding applications. A proven performer in numerous applications, it is most frequently used in food packaging containers where a dust free appearance is top priority.

DIMODAN® HS is the ideal safe solution with worldwide approval for all food contact applications. In other words, it can be used efficiently in all food packaging applications with no food safety concerns.

DIMODAN® HS is available in bead and pellet form. Beads are the standard, cost-efficient option, while pellets are an easy-to-handle form ensuring easier dosing and reduced stickiness in feeding and transport equipment.

Your gains and benefits

Your business gains	Your product benefits	Our proven solution
Worldwide approval for food contact applications Cost efficiency and performance	Excellent antistat Free flowing pellets with improved handling and feeding characteristics High heat and processing stability	DIMODAN® HS

Performance

DIMODAN® HS provides a good antistat performance in both random and homopolymer PP. The antistat performance, measured as static decay time, shows high efficiency.

Random copolymer PP

Additive	Additive conc. (%)	Static decay time (sec.) recorded at indicated time intervals						
		Day 1	Day 3	Day 7	Day 14	Day 28	Day 56	Day 112
DIMODAN® HS	0.10	1.4	0.8	0.4	0.4	0.6	0.7	1.5
	0.20	0.3	0.3	0.5	0.4	0.2	0.5	0.6
	0.30	0.2	0.3	0.4	0.4	0.8	0.5	1.1

Homopolymer PP

Additive	Additive conc. (%)	Static decay time (sec.) recorded at indicated time intervals						
		Day 1	Day 3	Day 7	Day 14	Day 28	Day 56	Day 112
DIMODAN® HS	0.40	1.0	2.0	2.1	0.9	2.2	1.0	2.0
	0.50	1.3	5.0	0.5	0.3	1.0	0.4	0.5
	0.60	6.0	2.2	0.6	0.4	0.8	0.2	0.6

Recommended use

DIMODAN® HS is used at varying loading levels depending on the type of PP polymer. Good antistat protection is generally achieved at 0.1-0.3% in random copolymers. In homopolymers, concentrations of 0.3-0.5% are recommended.

Other DuPont ingredients for food contact applications

DIMODAN® HPL 70 – antistat for impact copolymer PP

GRINDSTED® PS 426 – antistat and mould release for high clarity PP injection moulding applications

ASK US FOR

Free sample - Formulation - Technical assistance

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