

Technical Data Sheet



Niruadd-AO

Anti Oxidant Masterbatch

Nirumand Polymer

Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

Niruadd-AO is an anti oxidant masterbatch is used to provide protection against thermal degradation of polymer during process and improves product performance in the long term application. It can be used for the thermal stabilization of HDPE, LDPE, LLDPE, EVA and PP. It should be added during the extrusion process where high temperatures or high residence times cause degradation, cross linking, gel formation, carbonised particles and loss of mechanical properties. Niruadd-AO is the preferred stabilizer system for Blown Film, Profile Extrusion, Film Casting, etc. where the processing temperature does not exceed 280 °C.

General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Blown film, Pipe extrusion, Extrusion blow molding, Profile and Sheet extrusion
Appearance	•Translucent

Physical Properties	Value	Unit	Test Method
Density	0.93	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (190°C/2.16 kg)	15	gr/10 min	ASTM D1238

Usage

The addition rate of the Niruadd-AO depends on the processing temperature and the residence time of the material in the machine.

Stabilization improvement: 1-2%

During recycling: 2-3%

Extrusion of rework: 2-3%

Special characteristics

Long term thermal stability

Protection against degradation of polymer during repeated processing

Improvement in ageing resistance-high temperature processing

Excellent dispersion

◆ Values shown are average & are not to be considered as product specifications.

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