

High amorphous ethylene copolymer functionalized by maleic anhydride Aria Couple 1946[®]

Description

Aria Couple 1946[®] polymer resin is a maleic anhydride functionalized high amorphous ethylene copolymer. It has been primarily designed to act as an impact modifier for nylons and coupling agent in filled polyamide compounds with high mechanical properties.

Technical specification

- Function as a coupling agent between reinforcing materials such as glass fibers or mineral fillers and polyamide to achieve superior mechanical properties.
- Function as a coupling agent between PBT & glass fibers for high mechanical properties.
- Function as an impact modifier for toughening Nylon products such as PA6, PA66 & etc.



Physical	Value	Method
Density	0.9	ASTM D792
Melt flow index @190°C /2.16 kg	2 ± 0.5	ASTM D1238
Maleic anhydride graft level	High	Titration method
Usage level	5-20%	–

Maleic Anhydride Grafted high amorphous ethylene copolymer application effectiveness

Nylon toughener **Aria Couple 1946[®]** used for PA6 toughening.

Formula	High impact PA (recycled PA)	
	17% Lotader 4700	21% 1946
Tensile Strength at break (Mpa)	58	57
Elongation at break (%)	203	200
Impact strength (KJ/m2)	55	51

These are typical properties of nylon toughener and not intended as specification.

Packaging & storage

Aria Couple 1946[®] is packed in 25kg bags. This bag should be stored in a cool and dry place below 30°C, protected from sunlight and tightly closed to avoid contamination.